

State	Cities	2011			2012		
		SO2 Annual average (µg/m3)	NO2 Annual average (µg/m3)	PM10 Annual average (µg/m3)	SO2 Annual average (µg/m3)	NO2 Annual average (µg/m3)	PM10 Annual average (µg/m3)
Andhra Pradesh	Anatapur						
Andhra Pradesh	Chitoor	4	9	39	4	9	40
Andhra Pradesh	Eluru						
Andhra Pradesh	Guntur	4	10	74*	5	11	75
Andhra Pradesh	Kadapa						
Andhra Pradesh	Kakinada	4	9	59	@	@	58
Andhra Pradesh	Kurnool	4	9	82*	4	9	74
Andhra Pradesh	Nellore	4	10	63*	5	11	62
Andhra Pradesh	Rajahmundry						
Andhra Pradesh	Srikakulam						
Andhra Pradesh	Tirupati	4	9	37	4	9	37
Andhra Pradesh	Vijaywada	6	11	90*	6	12	97
Andhra Pradesh	Vishakhapatnam	13	20	80*	12	13	65
Andhra Pradesh	Vizianagaram						
Arunachal Pradesh	Itanagar						
Arunachal Pradesh	Naharlagun						
Assam	Bongaigaon	6	13	53	@	@	@
Assam	Daranga	6	14	56	5	13	56
Assam	Dibrugarh	6	13	42	6	13	56
Assam	Golaghat	6	15	63*	6	14	55
Assam	Guwahati	6	14	93*	6	14	92
Assam	Lakhimpur	6	13	64*	2	2	45
Assam	Margherita	9	20	53	6	15	54
Assam	Nagaon	6	13	86*	6	13	79
Assam	Nalbari	6	15	95*	6	15	82
Assam	Sibsagar	6	14	99*	7	15	109
Assam	Silchar	6	14	78*	6	14	91
Assam	Tezpur	5	12	60	3	9	11
Assam	Tinsukia	6	12	56	5	12	57
Bihar	Patna	5	47	174*	6	36	166
Chandigarh	Chandigarh	2	16	102*	2	19	110
Chattisgarh	Bhillai	9	22	106*	8	22	103
Chattisgarh	Bilaspur	8	21	-	6	20	@
Chattisgarh	Korba	12	20	94*	12	19	81
Chattisgarh	Raipur	14	42*	293*	14	40	268
Dadra & Nagar Haveli	Silvassa	8	19	24	8	20	@
Daman & Diu	Daman	7	20	24	8	20	@
Delhi	Delhi	5	57*	222*	5	59	237
Goa	Amona	11	16	79*	10	12	90
Goa	Assanora	9	14	78*	9	12	84
Goa	Bicholim	10	16	111*	10	18	119
Goa	Codli	9	15	76*	16	21	121
Goa	cuncolim						

Goa	Curchorem	7	16	87*	15	20	112
Goa	Honda	13	19	184*	16	21	135
Goa	Kundaim				9	16	63
Goa	Mapusa				7	9	82
Goa	Margao	15	23	90	9	17	67
Goa	Marmagao	4	19	72*	6	19	112
Goa	Panaji	4	17	87*	9	14	67
Goa	Ponda				9	16	60
Goa	Sanguem				14	19	100
Goa	Tilamol	18	25	150	15	20	114
Goa	Usgao	15	15	125*	10	18	121
Goa	Vasco	4	18	57	7	20	84
Gujarat	Ahmedabad	13	25	79*	12	24	83
Gujarat	Anklesvar	16	26	91*	18	27	99
Gujarat	Jamnagar	12	25	104*	12	25	101
Gujarat	Rajkot	13	18	98*	13	17	99
Gujarat	Surat	17	26	94*	16	26	97
Gujarat	Vadodara	17	29	88*	16	33	102
Gujarat	Vapi	16	25	88*	19	30	100
Haryana	Faridabad	21	44*	177*	12	38	184
Haryana	Hissar	5	7	101*	6	8	111
Haryana	Yamunanagar	11	26	172	@	@	@
Himachal Pradesh	Baddi	3	15	98*	2	23	99
Himachal Pradesh	Damtal	2	10	67*	2	12	97
Himachal Pradesh	Dharamshala						
Himachal Pradesh	Kala Amb	3	16	170*	2	16	165
Himachal Pradesh	Manali	2	9	109*	4	11	85
Himachal Pradesh	Nalagarh	2	13	89*	2	23	89
Himachal Pradesh	Paonta Sahib	2	8	72*	2	15	153
Himachal Pradesh	Parwanoo	2	9	87*	2	8	79
Himachal Pradesh	Shimla	3	12	54	2	12	57
Himachal Pradesh	Sunder Nagar	2	11	85*	2	11	94
Himachal Pradesh	Una	6	17	49	@	@	69
Jammu & Kashmir	Jammu	5	12	107*	6	12	119
Jharkhand	Dhanbad	16	35	202*	17	40	178
Jharkhand	Jamshedpur	36	48*	152*	37	49	149
Jharkhand	Jharia	16	39	223*	17	40	212
Jharkhand	Ranchi	18	35	170*	18	35	202
Jharkhand	Saraikela Kharsawan	35	45	216	39	51	160
Jharkhand	Sindri	16	33	214*	17	40	170

Jharkhand	West Singhbhum	24	34	231	19	27	153
Karnataka	Bagalkote	-	-	-	@	@	@
Karnataka	Bangalore	16	29	94*	14	28	121
Karnataka	Belgaum	2	14	41	2	19	72
Karnataka	Bidar	-	-	-	@	@	@
Karnataka	Bijapur	-	-	-	@	@	@
Karnataka	Chitradurga	-	-	-	@	@	@
Karnataka	Devanagere	10	16	67*	5	10	75
Karnataka	Gulburga	4	12	63*	3	11	65
Karnataka	Hassan	5	24	46	5	17	36
Karnataka	Hubli-Dharwad	7	13	73*	5	14	77
Karnataka	Karwar	-	-	-	@	@	@
Karnataka	Kolar	-	-	-	@	@	@
Karnataka	Mandya	11	22	43	10	24	49
Karnataka	Mangalore	7	8	55	6	7	31
Karnataka	Mysore	12	22	48	11	23	56
Karnataka	Raichur	-	-	-	@	@	@
Karnataka	Shimoga	-	-	-	@	@	@
Karnataka	Timukuru						
Kerala	Alappuzha	2	5	41	2	5	50
Kerala	Kochi	3	13	38	3	10	70
Kerala	Kollam	4	20	53	4	19	41
Kerala	Kottayam	5	17	48	6	16	56
Kerala	Kozhikode	2	8	47	2	8	56
Kerala	Malapuram	2	5	30	2	5	36
Kerala	Palakkad	3	9	23	3	7	37
Kerala	Pathanamthitta	2	13	22	2	15	23
Kerala	Thiruvananthapuram	10	23	58	9	22	55
Kerala	Thissur	2	14	33	2	15	73
Kerala	Wayanad	2	12	28	2	8	33
Madhya Pradesh	Bhopal	3	17	175*	3	21	173
Madhya Pradesh	Dewas	21	26	84*	18	23	92
Madhya Pradesh	Gwalior	12	20	309*	13	27	329
Madhya Pradesh	Indore	12	14	142*	12	20	143
Madhya Pradesh	Jabalpur	2	25	73*	2	24	75
Madhya Pradesh	Nagda	21	26	101*	26	27	103
Madhya Pradesh	Sagar	4	15	77*	3	13	120
Madhya Pradesh	Satna	3	6	99	@	@	@
Madhya Pradesh	Singrauli	-	-	-	24	25	64
Madhya Pradesh	Ujjain	14	14	98*	12	13	80
Madhya Pradesh	Chhindwara						
Madhya Pradesh	Amlai						
Madhya Pradesh	Prithampur						
Maharashtra	Akola	8	10	137*	9	10	139
Maharashtra	Amravati	11	13	100*	11	13	100
Maharashtra	Aurangabad	9	31	83*	9	32	80

Maharashtra	Badlapur	39	63*	105*	6	86	124
Maharashtra	Chandrapur	22	28	152*	11	19	148
Maharashtra	Dombivali/Ambernath				52	87	114
Maharashtra	Jalgaon	17	42*	118*	19	44	130
Maharashtra	Jalna	7	25	116*	9	30	109
Maharashtra	Kolhapur	16	22	86*	20	29	110
Maharashtra	Latur	6	16	116*	8	20	117
Maharashtra	Lote	43	32	86*	25	14	40
Maharashtra	Mahad	22	38	207*	@	@	@
Maharashtra	Mumbai	5	35	119*	5	20	117
Maharashtra	Nagpur	8	34	106*	10	32	103
Maharashtra	Nanded	28	29	39	30	30	53
Maharashtra	Nashik	25	27	101*	24	27	95
Maharashtra	Navi Mumbai	17	44*	129*	17	43	120
Maharashtra	PimpriChinchwad						
Maharashtra	Pune	32	58*	113*	22	45	92
Maharashtra	Roha	21	35	133*	@	@	@
Maharashtra	Sangli	10	35	76*	11	40	80
Maharashtra	Solapur	17	35	78*	17	35	83
Maharashtra	Tarapur	-	-	-	@	@	@
Maharashtra	Thane	16	13	56	20	12	72
Maharashtra	Ulhasnagar	37	67*	114*	46	79	111
Manipur	Imphal	-	-	-	@	@	@
Meghalaya	Byrnihat	74*	17	178*	35	20	138
Meghalaya	Dawki	3	7	63*	2	8	44
Meghalaya	khliehriat						
Meghalaya	Nongstoin						
Meghalaya	Shillong	3	10	72*	2	11	65
Meghalaya	Tura	2	7	59	2	5	52
Meghalaya	Umiam						
Mizoram	Aizawl	2	5	46	2	10	54
Mizoram	Champhai	2	5	65	2	5	62
Mizoram	Kolasib	2	5	94	2	5	57
Mizoram	Lunglei	2	5	41	3	5	41
Nagaland	Dimapur	2	7	88*	2	7	90
Nagaland	Kohima	2	5	77*	2	5	82
Orissa	Angul	7	20	106*	6	19	106
Orissa	Balasore	2	12	76*	3	14	82
Orissa	Berhampur	2	15	75*	2	18	80
Orissa	Bhubneshwar	2	25	121*	2	18	81
Orissa	Cuttack	2	17	70*	2	17	68
Orissa	Jharsuguda						
Orissa	Kalinga Nagar				3	9	52
Orissa	Konark						
Orissa	Paradeep						
Orissa	Puri						
Orissa	Rayagada	3	22	58	3	22	54

Orissa	Rourkela	5	11	104*	5	11	98
Orissa	Sambalpur	4	14	52	3	15	53
Orissa	Talcher	9	20	109*	8	19	116
Puducherry	Puducherry	7	16	42*	8	14	42
Puducherry	Karaikal						
Punjab	Amritsar	14	36	210*	15	39	202
Punjab	Batala	-	-	-	@	@	@
Punjab	Bhatinda	10	22	105*	@	@	@
Punjab	Dera Bassi	9	22	105*	9	28	129
Punjab	Faridkot						
Punjab	Gobindgarh	9	29	166*	9	35	201
Punjab	Hoshiarpur						
Punjab	Jalandhar	12	26	142*	13	26	136
Punjab	Khanna	11	31	237*	10	26	213
Punjab	Ludhiana	11	28	221*	11	27	228
Punjab	Naya Nangal	7	17	76*	7	19	89
Punjab	Pathankot/Dera Baba	7	14	69*	7	12	68
Punjab	Patiala	8	19	97*	5	13	62
Punjab	Sangrur						
Rajasthan	Alwar	12	22	214*	10	22	151
Rajasthan	Jaipur	7	42*	147*	9	52	187
Rajasthan	Jodhpur	5	23	168*	6	24	189
Rajasthan	Kota	7	31	139*	8	32	156
Rajasthan	Udaipur	6	32	171*	6	31	155
Sikkim	Gangtok	-	-	-	@	@	@
Tamilnadu	Chennai	12	19	65*	12	21	57
Tamilnadu	Coimbatore	4	33	86*	3	27	68
Tamilnadu	cuddalore						
Tamilnadu	Madurai	11	24	45	14	30	48
Tamilnadu	Mettur						
Tamilnadu	Salem	8	21	65*	9	22	60
Tamilnadu	Trichy	-	-	-	11	17	76
Tamilnadu	Tuticorin	10	15	130*	14	14	134
Telangana	Adilabad District						
Telangana	Hydrabad	5	29	86*	4	28	79
Telangana	Karimnagar						
Telangana	Khammam	4	9	81*	5	11	63
Telangana	Kothur						
Telangana	Nalgonda	4	18	75*	4	15	79
Telangana	nizamabad						
Telangana	Patencheru	6	22	76*	6	22	108
Telangana	Prakasam						
Telangana	Ramagundam	6	11	65*	6	11	82
Telangana	Sangareddy						
Telangana	Warangal	6	11	61*	3	11	49
Tripura	Agartala						
Uttar Pradesh	Agra	5	22	165*	5	23	196

Uttar Pradesh	Allahabad	6	23	260*	4	32	317
Uttar Pradesh	Anpara	16	26	140*	17	31	134
Uttar Pradesh	Bareilly	14	56*	218*	12	24	231
Uttar Pradesh	Firozabad	12	39*	271*	12	31	212
Uttar Pradesh	Gajraula	14	22	89*	19	29	158
Uttar Pradesh	Ghaziabad	31	39	231*	30	34	248
Uttar Pradesh	Gorakpur	22	42*	67	18	35	123
Uttar Pradesh	Jhansi	8	24	118*	8	21	110
Uttar Pradesh	Kanpur	8	33	184*	8	34	215
Uttar Pradesh	Khurja	28	28	164*	25	25	168
Uttar Pradesh	Lucknow	8	33	189*	8	32	211
Uttar Pradesh	Mathura	20	24	206	23	29	208
Uttar Pradesh	Meerut	5	45*	122*	4	43	129
Uttar Pradesh	Muradabad	13	23	145*	13	23	165
Uttar Pradesh	Noida	10	45*	138*	9	35	136
Uttar Pradesh	Raebareli	8	11	133*	11	15	163
Uttar Pradesh	Saharanpur	29	20	42	11	29	186
Uttar Pradesh	Unnao	10	34	132	10	32	98
Uttar Pradesh	Varanasi	17	20	127*	18	21	138
Uttarakhand	Dehradun	22	24	157	26	28	188
Uttarakhand	Haldwani	17	24	125	@	@	137
Uttarakhand	Haridwar	23	24	137*	28	32	149
Uttarakhand	Kashipur	25	29	291*	@	@	180
Uttarakhand	Rishikesh	21	22	94*	22	24	109
Uttarakhand	Rudrapur	15	20	150*	@	@	158
West Bengal	Asansol	7	55*	141*	10	37	111
West Bengal	Barrackpore	21	45*	98*	13	48	130
West Bengal	Durgapur	7	57*	166*	13	48	108
West Bengal	Haldia	15	55*	136*	13	41	238
West Bengal	Howrah	12	62*	131*	13	40	186
West Bengal	Kolkata	13	66*	115*	12	70	135
West Bengal	Raniganj	7	52*	153*	14	45	126
West Bengal	Sankrail	9	50*	114*	@	@	@
West Bengal	South Suburban	6	50*	96*	8	59	119

2013			2014			2015		
SO2 Annual average (µg/m3)	NO2 Annual average (µg/m3)	PM10 Annual average (µg/m3)	SO2 Annual average (µg/m3)	NO2 Annual average (µg/m3)	PM10 Annual average (µg/m3)	SO2 Annual average (µg/m3)	NO2 Annual average (µg/m3)	PM10 Annual average (µg/m3)
4	13	70	5	10	76	5	11	88
4	9	51	5	12	65	5	13	67
6	15	115	*	*	121	5	23	77
4	17	75	5	23	79	5	26	100
5	10	70	4	10	78	5	11	70
13	19	59	12	21	56	8	19	62
4	10	76	4	10	77	5	10	82
5	17	62	5	21	63	5	28	66
11	17	68	11	18	64	7	18	62
11	16	76	14	22	69	10	22	73
4	9	44				5	11	62
5	19	104	5	24	100	6	37	110
13	18	67	13	20	64	9	19	61
13	19	63	13	21	69	10	24	74
			2	5	75	4	7	91
			2	5	64	4	4	70
7	14	45	7	13	50	7	14	46
6	14	98	6	13	70	6	12	69
7	15	99	6	14	44	7	15	109
7	16	101	7	14	63	7	14	124
7	16	147	7	14	88	7	14	97
7	16	121	6	14	66	6	14	78
7	15	77	12	24	55	7	15	115
7	15	132	7	13	100	8	15	137
7	17	140	7	15	76	6	15	120
7	15	120	6	12	90	6	13	70
7	17	135	6	14	80	6	13	72
7	14	120	7	13	71	7	14	90
6	14	99	6	13	57	7	15	119
			*	*	*			
2	28	101	2	21	91	2	25	85
8	22	102	9	23	108	9	23	109
5	22	115	5	21	101	6	22	99
12	19	77	13	19	72	12	18	66
15	41	305	16	41	329	13	36	188
8	21	44	*	*	*	16	27	89
8	20	44	*	*	*	14	25	83
4	66	221	5	61	217	5	65	220
7	12	55	5	10	63	4	9	62
7	12	54	5	10	52	4	9	52
7	12	57	5	10	50	4	9	54
7	12	48	5	10	52	4	8	49
			4	9	60	4	9	56

7	13	54	5	10	50	4	9	52
7	12	54	5	10	46	4	9	49
7	13	54	5	10	65	4	10	60
10	12	60	9	11	59	9	10	56
6	12	60	5	10	58	4	9	59
6	12	60	3	7	70	6	9	74
7	10	46	3	7	51	5	13	52
6	12	50	5	10	54	4	9	51
7	12	46	5	10	49	4	9	47
7	12	53	5	10	53	4	9	54
6	12	54	5	10	55	4	9	52
7	11	49	3	8	52	8	15	50
12	17	79	13	20	84	13	21	89
14	21	86	15	21	89	15	21	88
12	19	90	15	21	85	13	20	84
12	17	87	13	19	82	13	19	83
13	20	88	15	20	89	14	20	89
14	19	89	15	21	87	14	20	87
13	20	93	14	20	93	13	21	88
12	26	196	14	26	199	15	74	105
6	9	97						
10	23	153	11	19	68			
2	27	118	1	24	109	2	20	101
2	11	85	2	11	97	2	15	105
			2	11	32	2	10	37
2	15	142	3	15	138	3	15	118
2	9	48	2	11	40	2	10	46
2	26	110	2	30	109	2	22	89
2	14	117	3	14	128	3	15	117
3	12	68	2	13	66	2	12	61
2	10	47	2	11	48	4	13	55
2	8	74	2	12	87	2	13	83
2	6	93	2	6	77	2	6	80
5	15	118	5	13	123	4	17	125
16	40	151	14	36	166	12	37	168
35	45	135				35	45	134
16	39	193	14	37	237	13	38	231
19	36	177	18	34	197	19	36	220
						36	45	142
16	40	121	13	36	100	12	37	75

						18	23	111
13	26	113	13	30	139	6	20	119
2	19	74	2	9	76	2	15	64
6	13	67	6	14	62	6	13	59
			2	16	150	2	16	99
3	6	29	3	5	38	3	5	47
5	8	92	4	7	85	4	8	109
3	14	88	5	12	77	3	22	95
5	18	26	6	19	25	6	19	25
6	15	96	5	18	90	6	22	75
6	14	47	6	12	67	6	15	75
11	23	43	11	22	43	10	22	42
8	7	32	8	7	32	7	7	36
11	23	60	12	23	56	11	23	48
9	13	79	9	13	112	6	10	92
5	8	51	5	8	42	3	6	36
			11	34	117	5	22	134
2	5	47	5	4	77	2	5	45
2	6	75	2	8	68	3	12	41
4	11	36	5	10	35	5	10	46
7	19	70	6	21	61	5	21	60
2	17	48	2	19	46	2	24	48
2	5	37	2	8	43	2	14	44
3	5	39	4	6	39	2	8	47
2	14	24	2	12	22	2	14	25
9	22	54	9	22	51	10	25	55
2	12	46	2	11	55	2	8	48
2	5	42	2	5	36	2	5	37
3	26	220	2	21	160	3	23	158
16	21	102	15	21	93	15	21	90
13	27	197	11	17	144	10	14	125
11	19	156	11	20	143	11	20	97
2	23	69	2	23	73	9	28	90
26	27	106	21	23	70	21	22	56
2	14	156	2	15	161	2	14	103
			3	7	163		7	125
						13	18	90
13	14	82	13	14	97	13	14	93
						8	31	85
						15	23	64
						8	18	119
7	8	133	8	9	135	7	8	128
11	13	90	12	13	107	12	13	108
10	37	84	12	39	85	13	40	83

25	46	84	40	58	122	21	55	105
13	22	129	9	28	129	5	20	103
25	54	91	40	77	141	20	53	104
20	43	131	19	42	116	16	39	108
11	31	122	10	30	137	12	31	118
22	36	118	21	37	100	21	38	97
6	17	97	6	16	90	5	15	78
10	9	131	11	11	112	11	11	163
3	13	117	4	20	96	4	25	107
8	27	89	11	25	103	10	25	90
33	31	63	47	45	109	50	48	167
28	29	85	25	26	72	15	23	78
17	44	137	18	40	151	18	42	125
20	43	86	22	41	93	23	52	102
20	41	88	23	45	92	23	62	99
10	39	76	12	45	100	11	41	77
16	35	83	15	34	76	13	35	74
17	32	110	18	60	109	28	58	117
23	43	75	34	56	107	22	56	107
22	15	122	26	20	136	25	13	122
3	10	42	2	12	44	2	11	36
2	6	36	2	5	42	2	5	36
2	6	24	2	10	28	2	10	26
2	11	65	2	10	63	2	13	59
2	6	38	2	5	38	2	5	30
						2	13	84
2	9	48	2	7	43	2	8	44
2	5	57	2	5	46	2	5	34
2	5	42	2	5	36	2	5	33
2	5	46	2	5	48	2	5	42
2	6	101	2	5	129	2	8	122
2	5	85	2	5	91	2	5	93
8	21	106	10	23	116	10	24	102
4	13	87	4	12	87	4	12	82
2	20	75	2	17	72	2	18	54
2	17	87	2	18	90	2	17	81
2	17	83	2	30	92	3	30	81
			11	19	112			
2	16	83	2	10	94	2	10	100
2	12	63	2	13	70	2	13	88
3	13	55	10	11	88	15	13	108
2	14	63	2	16	67	2	17	94
4	23	50	4	20	52	4	21	50

5	11	96	6	11	83	8	13	100
3	14	51	3	16	55	4	17	77
8	21	110	9	24	124	10	25	135
6	14	43	5	13	42	6	12	35
			16	12	35	13	9	35
13	40	180	11	31	145	11	30	148
7	22	130	6	17	122	9	23	158
7	21	129	6	15	113	5	15	96
			4	12	74	5	13	90
6	33	165	7	36	135	7	36	130
			7	14	55	6	13	72
13	27	164	13	26	144	14	26	151
11	22	183	10	23	160	10	22	122
11	26	204	10	26	146	11	27	139
5	16	86	4	12	85	5	12	83
8	13	76	7	13	68	7	13	77
6	18	108	5	14	104	5	15	110
			4	12	88	5	13	100
10	21	266	11	23	240	10	26	180
7	40	160	7	43	150	7	36	171
5	23	176	7	31	190	6	24	152
7	33	122	7	35	127	6	34	134
6	32	141	6	32	112	6	33	156
14	22	75	13	22	57	13	20	59
4	24	56	5	25	49	4	25	47
8	19	49	9	20	62	10	20	56
14	22	41	13	26	46	13	25	64
9	25	58	8	23	53	8	24	49
9	25	62	8	29	63	9	28	54
14	18	87	15	19	84	13	18	85
13	18	77	13	18	83	14	18	91
5	14	61	5	12	67			
5	24	90	5	24	95	4	23	93
7	12	65	5	12	61	7	15	64
5	17	62	4	17	66	5	12	60
						9	17	106
4	16	76	5	18	93	7	25	76
5	12	56	5	12	62			
6	24	91	5	24	95	6	25	85
4	17	64	5	22	63	5	29	67
10	15	84	6	14	55	7	15	67
9	17	118	8	30	96	6	21	70
7	13	49	5	11	52	5	12	58
5	21	184	5	19	178	4	22	186

5	29	235	4	28	250	4	26	250
18	27	133	18	27	131	18	27	136
11	25	232	12	23	239	12	23	240
12	31	246	12	26	146	9	30	194
17	25	137	22	35	179	16	31	177
26	34	285	27	39	242	23	37	260
						18	32	139
17	31	200	8	21	106	8	22	119
7	31	201	6	34	199	6	36	201
25	25	162	21	21	158	23	23	167
8	29	192	8	28	174	8	28	169
5	39	134	8	48	154			
16	24	160	21	32	201	13	27	168
9	31	142	8	28	135	9	29	154
11	17	177	11	17	160	11	17	157
9	28	114	10	29	73	20	29	119
19	28	145	19	32	139	19	33	145
25	28	156	26	29	165	27	30	188
		144			149			138
28	29	119	24	27	127	24	27	123
		151			121			107
23	25	113	24	28	122	25	29	121
2	5	156			139			125
10	52	160	8	55	84	8	55	97
11	50	166	9	55	103	8	58	113
10	51	160	9	56	102	8	55	101
10	39	146	11	38	136	3	17	87
11	45	187	9	35	111	15	43	123
11	70	159	9	70	122	7	56	105
10	51	163	9	58	134	8	56	114
9	60	180	4	38	96	3	37	90