

List of Figures

Figure 1. Map of Study Sites	18
Figure 2. Pitfall Trap	35
Figure 3. Bait.....	35
Figure 4. Hand Collection.....	36
Figure 5. <i>Camponotus compressus</i> (Fabricius, 1787).....	93
Figure 6. <i>Camponotus sericeus</i> (Fabricius, 1798).....	93
Figure 7. <i>Camponotus irritans</i> (Smith, 1857).....	94
Figure 8. <i>Dorylus labiatus</i> (Shuckard, 1840)	94
Figure 9. <i>Monomorium minimum</i> (Buckley, 1857).....	95
Figure 10. <i>Oecophylla smaragdina</i> (Fabricius, 1775).....	95
Figure 11. <i>Paratrechina longicornis</i> (Latreille, 1802).....	96
Figure 12. <i>Polyrhachis lacteipennis</i> (F. Smith, 1858)	96
Figure 13. <i>Crematogaster soror</i> (Forel, 1902).....	97
Figure 14. <i>Crematogaster subnuda</i> (Mayr, 1979)	97
Figure 15. <i>Monomorium pharaonis</i> (Linnaeus, 1758).....	98
Figure 16. <i>Pheidole megacephala</i> (Fabricius, 1793).....	98
Figure 17 <i>Pheidole watsoni</i> (Forel, 1902).....	99
Figure 18. <i>Solenopsis geminata</i> (Fabricius, 1804)	99
Figure 19. <i>Solenopsis invicta</i> (Buren, 1972).....	100
Figure 20. <i>Diacamma ceylonense</i> (Emery, 1897)	100
Figure 21. <i>Leptogenys chinensis</i> (Mayr, 1870)	101
Figure 22. <i>Tetraponera rufonigra</i> (Jerdon, 1851)	101
Figure 23 <i>Solenopsis invicta</i> (Queen)	102
Figure 24 <i>Camponotus compressus</i> (Male)	102
Figure 25. Stages of the life cycle of <i>Pheidole watsoni</i>	103
Figure 26. Percentage Composition of Ant Subfamilies in Urban Ecosystem	126
Figure 27. Ant Species Occurrences in Urban Ecosystem.....	126
Figure 28. Renyi's Diversity Ordering Graph for Urban Ecosystems.....	127
Figure 29. Distribution of ants in Different Areas of Urban Residential Sites..	127
Figure 30. Percentage Composition of Ant Subfamilies in Agricultural Ecosystem.....	128
Figure 31. Renyi's Diversity Ordering Graph for Agricultural Ecosystems.....	128

Figure 32. Ant Species vs different areas of Agricultural Fields	129
Figure 33. Sayaji Baug.....	134
Figure 34. Sayaji Baug.....	134
Figure 35. Sardar Baug	135
Figure 36. Sardar Baug.....	135
Figure 37. Lal Baug.....	136
Figure 38. Lal Baug.....	136
Figure 39. Akota Garden.....	137
Figure 40. Akota Garden.....	137
Figure 41. Department of Zoology. The M.S University of Baroda	138
Figure 42. The M.S University of Baroda	138
Figure 43. Bhookhi Nala, The M.S University of Baroda	139
Figure 44. Lawn in front of Dept. of Zoology. The M.S University of Baroda..	139
Figure 45. Laxmi Vilas Palace.....	140
Figure 46. Laxmi Vilas Palace.....	140
Figure 47. Banyan tree Laxmi Vilas Palace.....	141
Figure 48. Laxmi Vilas Palace.....	141
Figure 49. Pearl millet field Timbi.....	142
Figure 50 Paddy crop Timbi	142
Figure 51. Mustard Field Savli.....	143
Figure 52. <i>Crysanthemum</i> crop Savli	143
Figure 53. Castor Field Padra	144
Figure 54. Fallow Field Padra	144
Figure 55. Cabbage Crop Padra	145
Figure 56. Paddy Crop Padra.....	145
Figure 57. <i>Pheidole</i> ants in Washroom	146
Figure 58. <i>Monomorium</i> Ants on Rooftop.....	146
Figure 59. <i>Camponotus compressus</i> males with queen near swimming pool	147
Figure 60. <i>Camponotus compressus</i> tending <i>Oxyrachis tarandus</i>	163
Figure 61. <i>Camponotus compressus</i> ants on <i>Acacia nilotica</i>	163
Figure 62. <i>Camponotus compressus</i> tending an aphid	164
Figure 63. <i>Camponotus compressus</i> tending scale insects	164
Figure 64. <i>Camponotus sericeus</i> visiting flowers	165

(Pollen grains can be seen sticking to the body of the ant)	165
Figure 65. <i>Camponotus compressus</i> – a potential pollinator?.....	165
Figure 66. Workers of <i>Oecophylla smaragdina</i> transporting an ant corpse....	166
Figure 67. <i>Solenopsis invicta</i> workers ants feasting on a larva	166
Figure 68. Loose overturned soil around a <i>Pheidole</i> nest in a garden site.....	167
Figure 69. Mound nests of <i>Lasius</i> sp.	167
Figure 70. <i>Bubulcus ibis</i> (Cattle egret) in agricultural fields.....	168
Figure 71. <i>Pheidole</i> ants carrying <i>Danaus chrysippus</i> , butterfly wing	168
Figure72. Monodomous nest of <i>Camponotus sericeus</i> with plastered walls .	176
Figure73. Monodomous nest of <i>Leptogenys chinenses</i> in loose soil	176
Figure74. Monodomous nest of <i>Camponotus compressus</i> in hard soil.....	177
Figure75. Monodomous nest of <i>Camponotus</i> sp. in field periphery.	177
Figure76. Polydomous nest of <i>Pheidole</i> sp. in field periphery.....	178
Figure77. Polydomous nest of <i>Monomorium</i> sp. along joggers path.....	178
Figure 78. Nest of <i>Crematogaster soror</i> at the base of <i>Aegle marmelos</i>	179
Figure 79. Polydomous nest of <i>Pheidole watsoni</i> in a flower pot	179
Figure 80. Mud nests of <i>Camponotus compressus</i> on trunk of Banyan	180
Figure 81. <i>Oecophylla smaragdina</i> nest of leaves of <i>Mangifera indica</i>	180
Figure 82. Balconies built by <i>Solenopsis invicta</i> in the field periphery	181
Figure 83. Nest of <i>Monomorium minimum</i> with raised chimney like entrance	181
Figure 84. Nest entrance of <i>Monomorium minimum</i> with a twig roof.....	182
Figure 85. Ant trail of <i>Monomorium</i> sp.	183
Figure 86. <i>Crematogaster soror</i> foraging in a trail.....	183
Figure 87. Solitary foraging <i>Camponotus compressus</i> carrying stale bread .	184
Figure 88. <i>Crematogaster</i> sp. around a drop of tea	184
Figure 89. <i>Pheidole megacephala</i> workers (major and minor)	185
Figure 90. <i>Tapinoma melanocephalum</i> feasting on a dead roach.....	185