

List of Figures

Fig. 2.1	Rainfall distribution of the Panchet Forest Division from 2005 to 2009.....	24
Fig. 2.2	Temperature distribution of the Panchet Forest Division in 2005–2009	24
Fig. 3.1	Ecological survey at Bishnupur—transect A	69
Fig. 3.2	Ecological survey at Bishnupur—transect E	69
Fig. 3.3	Ecological survey at Dalma—foothill	70
Fig. 3.4	Ecological survey at Dalma—middle hill.....	70
Fig. 3.5	Ecological survey at Bankadaha—transect A	71
Fig. 3.6	(a) Temperature variation in Panchet Forest Division (PFD). (b) Rainfall distribution in PFD	72
Fig. 3.7	Duration of elephant stay at different stations in Belsulia village	73
Fig. 3.8	Duration of elephant stay at different stations in Basudevpur village	73
Fig. 3.9	Duration of elephant stay at different stations in Kharikasuli village.....	74
Fig. 3.10	Duration of elephant stay at different stations in Chougan village	74
Fig. 3.11	Duration of elephant stay at different stations in Siromonipur village	75
Fig. 3.12	Duration of elephant stay at different stations in Dhangapathar village	75
Fig. 3.13	Duration of elephant stay at different stations in Herapabat village	76
Fig. 3.14	Duration of elephant stay at different stations in Dhangasole village.....	76

Fig. 4.1	Ecological transect of different station, Bishnupur—F	87
Fig. 4.2	Ecological transect of different station, Bankadha—A.....	88
Fig. 4.3	Ecological transect of different station, Taldangra—H.....	88
Fig. 4.4	Percentages of canopy and ground cover.....	89
Fig. 4.5	Relationships between population density and forest cover.....	90
Fig. 4.6	Distances from forest edge and diameter at breast height (DBH).....	90
Fig. 4.7	Relation between forest edge and abundance of plant species	91
Fig. 4.8	Concentration of pond in forest core	91
Fig. 4.9	Motorable road ratio and abundance of plant species.....	91
Fig. 5.1	Preferences for habitat selection	100
Fig. 5.2	Trend of elephant migration in Panchet Forest Division in 1995–2012	101
Fig. 5.3	Duration of stay at Panchet Forest Division in 1995–2012	102
Fig. 5.4	Beat-wise elephant migration in Panchet Forest Division in 2008–2009	117
Fig. 5.5	Volumes of migration and duration of stay of residential and migratory elephants, 2001–2012.....	118
Fig. 6.1	Landholding characteristics in Panchet Forest Division.....	123
Fig. 6.2	Land use category under different classes	123
Fig. 6.3	Human–elephant conflict and its consequences, 2003–2012.....	130
Fig. 6.4	Loss of property due to elephant depredation, 2003–2012.....	131
Fig. 6.5	Diurnal behaviour of elephant attack.....	132
Fig. 7.1	People’s attitude towards elephants	138
Fig. 7.2	Awareness notice issued by the forest department.....	143
Fig. 7.3	Elephant deaths in southern West Bengal since 1991	144
Fig. 7.4	Different methods adopted by villagers to resist elephant attack	145
Fig. 8.1	Schematic representations of elephant landscape reserves.....	157

Man-Elephant Conflict

A Case Study from Forests in West Bengal, India

Das Chatterjee, N.

2016, XXIX, 179 p. 126 illus., 125 illus. in color.,

Softcover

ISBN: 978-3-319-31161-6