Table of Contents

Foreword



1. Introduction

- 1.1. Why do we need to restore our coastal dunes? (4 pages, 2011)
- 1.2. Introducing the Dune Restoration Trust of New Zealand (8 pages, 2011)
- 1.3. How to use this handbook (2 pages, 2011)



2. How do dunes work?

- 2.1. Natural dune form and function (yet to be published)
- 2.2. Storm cut erosion and recovery (4 pages, 2011)
- 2.3. Shoreline changes at river and tidal entrances (8 pages, 2011)
- 2.4. Zonation and succession on coastal sand dunes (8 pages, 2014)



3. Sand dunes in New Zealand

- 3.1. Location and extent of sand dunes in New Zealand (yet to be published)
- 3.2. A historical and cultural perspective of dunelands (yet to be published)



4. Climate Change and coastal sand dunes

- 4.1. Climate Change effects and the importance of sand dunes (8 pages, 2011)
- 4.2. Coastal communities and Climate Change (yet to be published)



5. Dune restoration and management

- **5.1.** Options for restoration (yet to be published)
- **5.2.** Foredunes and backdunes approaches to restoration (yet to be published)
- 5.3. Management of erosion on dunes The "Engineering Paradigm" (yet to be published)



6. Coast Care

- **6.1.** Empowering communities to restore sand dunes (yet to be published)
- **6.2.** How to set up a Coast Care group (yet to be published)



7. Native vegetation on foredunes

- 7.1. Spinifex ecology, habitat and growth (12 pages, 2011)
- **7.2.** Spinifex guidelines for seed collection propagation and establishment (12 pages, 2011)
- 7.3. Pingao ecology, distribution and habitat (8 pages, 2011)
- **7.4.** Pingao guidelines for seed collection, propagation and establishment (12 pages, 2011)
- 7.5. Pingao Sustainable harvesting of pingao for weaving (8 pages, 2011)



8. Native vegetation on backdunes

- **8.1.** Backdunes an introduction (4 pages, 2014)
- 8.2. Ground cover plants for restoration of backdunes (8 pages, 2014)
- 8.3. Native trees and shrubs to use on backdunes (8 pages, 2014)
- 8.4. Wiwi knobby club rush the wonder plant of backdunes (12 pages, 2014)
- **8.5.** Restoration of sand daphne on coastal dunes a plant in decline (8 pages, 2014)



9. Fencing and accessways on sand dunes

- 9.1. The role of fences on coastal sand dunes (12 pages, 2011)
- 9.2. Accessways on coastal sand dunes (12 pages, 2011)

Table of Contents



10. Human impacts on dunes

- 10.1. Human modification of New Zealand coastal dune ecosystems (12 pages, 2014)
- 10.2. Effects of vehicles on sand dunes (12 pages, 2011)



11. Fauna of beaches and dunes

11.1. Importance of animals and insects on dunes (yet to be published)



12. Planting practices for coastal dunes

- 12.1. Planting natives on sand dunes getting started (2 pages, 2014)
- 12.2. Seed collection and eco-sourcing (yet to be published)
- 12.3. Nursery-raising of plants and quality control (yet to be published)
- 12.4. Site preparation (yet to be published)
- 12.5. Planting methods (yet to be published)
- 12.6. Maintenance (yet to be published)



13. Weeds and pest animals on coasts

- 13.1 Weeds and pests animals on coasts an introduction (yet to be published)
- 13.2. Weeds of foredunes and backdunes (yet to be published)
- 13.3. Weed control options for planting natives on sand dunes (4 pages, 2014)
- 13.4. Table of herbicides and target weeds (yet to be published)
- 13.5. Control of rabbits and hares (yet to be published)



14. Monitoring coastal sand dunes

- 14.1. Monitoring coastal sand dunes an introduction (8 pages, 2014)
- 14.2. On-line guidelines for community monitoring (2 pages, 2018)
- 14.3. Managing monitoring data for dunes (2 pages 2018)



Case studies

- 1. Restoring degraded urban dunes. Case study Eastern Coromandel (12 pages, 2014)
- 2. Establishing natives on sand dunes. Case study Caroline Bay, Timaru (12 pages, 2014)
- 3. Restoring windblown dunes using native plants. Ngarahae, west coast North Island (12 pages, 2018)