



Tiromoana Bush Advisory Group

Tiromoana Bush Year 4 (2008-2009) Work Plan

Introduction

The following Year 4 Work Plan is based on the indicative time-line outlined in the Tiromoana Bush Restoration Project Management Plan (Section 8.8; referred to as the 'Management Plan' in this work plan). Year 4 actions are to be undertaken in the 2008/09 financial year commencing 1 July 2008. The preparation of this Year 4 Work Plan involved the Tiromoana Bush Advisory Group who reviewed the restoration activities undertaken during Year 3 (2007/08) and then approved the present work plan (see Section 10.4 of the Management Plan) at their 2 October 2008 meeting.

1. Management Planning

Action 1.1: Annual Work Plan Preparation

- Complete review of 2008/09 restoration work.
- Prepare 2009/10 work plan in time for the June 2009 Tiromoana Bush Advisory Group meeting.

Action 1.2: Tiromoana Advisory Group Meetings

- Hold Advisory Group meetings in December 2008 (Tiromoana Bush) and June 2009 (Christchurch - review of 2008/09 work and approval of 2009/10 work plan).

Action 1.3: GIS database and project management

- Finish updating GIS files relating to management work (e.g., photo point and monitoring site locations, threatened and uncommon plant locations) and transfer these to the CWS GIS system.
- Update notes on monitoring methods to facilitate subsequent remeasurement.

2. Monitoring

Action 2.1: Photopoints

- Re-photograph existing photopoints in December 2008.
- Re-photograph all permanent vegetation plot photopoints and restoration plot photopoints.

Action 2.2: Permanent Plots

- Establish five permanent plots in areas of gorse shrubland.
- Establish five permanent plots in grassland (stratified by distance from kanuka remnants and aspect).
- Establish two additional permanent plots to monitor restoration plantings once they are established (see Section 9.3 of the Management Plan).
- Remeasure existing restoration monitoring plots.

Action 2.3: Other Faunal Monitoring

- Establish baseline monitoring for wetas and lizards.

3. Plant and Animal Pest Control

Action 3.1: Weed Control

- Continue mapping of woody weeds (including an autumn check for deciduous species)
- Complete removal of wilding conifers
- Complete removal of willows (by trunk poisoning)
- Remove any hawthorn or cherry plum as they are encountered

Action 3.2: Animal Pest Control

- If the outcome of the October 2008 bird monitoring shows an ongoing decline in bird numbers, then undertake a detailed mustelid and rodent monitoring programme across Tiromoana Bush as a basis for implanting a targeted control programme for these predators.
- Maintain an ongoing review of rabbit and hare numbers and instigate control as required.
- Undertake Canada goose control if numbers dictate.
- Undertake deer and goat control if numbers dictate in consultation with adjacent land owners (especially with regard to the possible presence of goats in Teviotdale forest).

Action 3.3: Fencing

- Continue to maintain boundary fences.

4. Plant Restoration

Action 4.1: Restoration Propagation

- Continue beech propagation work with the goal of establishing at least 300 black beech plants in propagation, and if seedlings are ready, undertake initial restoration of black beech.
- Continue with collection of seeds/cuttings for general restoration plantings.
- Plant *ca.* 2000 plants in the field and instigate appropriate maintenance for earlier plantings.

5. Recreation and Community Relations

Action 5.1: Public Walking Track

- Complete the two short link tracks (Ella Pond Junction to Forestry Junction, and from Rocky Ridge Junction to Kate Pond Weir).
- Ongoing maintenance of walkway.

Action 5.2: Newsletter, Brochures and Web Page

- Update Tiromoana Bush web site on a regular basis.
- Contribute material to the Transwaste Canterbury newsletter as required.

Action 5.3: School Liaison

- Work with Untouched World Foundation to further Tiromoana Bush restoration goals and provide education to participating students.
- Make presentation on Tiromoana Bush project to interested staff and students at Rangiora High School, Hurunui College and Kaiapoi High School.

Action 5.4: Voluntary Workers

- Facilitate voluntary input from individuals and groups to assist with the Tiromoana Bush project as arises.

Action 5.5: Research

- Support ENSIS research on direct seeding (Nick Ledgard).
- Continue with field trials assess the effect of opening out kanuka canopy on understorey regeneration (David Norton).
- Support other research relevant to the objectives of the Tiromoana Bush project on a case-by-case basis.