



Crown Pastoral Land Tenure Review

Lease name : LAUDER

Lease number : PO 376

Conservation Resources Report - Part 4

As part of the process of Tenure Review, advice on significant inherent values within the pastoral lease is provided by Department of Conservation officials in the form of a Conservation Resources Report. This report is the result of outdoor survey and inspection. It is a key piece of information for the development of a preliminary consultation document.

Note: Plans which form part of the Conservation Resources Report are published separately.

These documents are all released under the Official Information Act 1982.

September 06



Figure 11 Looking south and west into Lauder Creek from approximately GR NZMS 260 G41 434 868. Extensive areas of shrubland are present in the lower reaches of Lauder Creek.



Figure 12 Lauder Basin area looking toward north boundary. Lauder Creek lies in the gully in the mid ground of the picture. A formed track on the ridge of the Dunstan Mountains traverses the ridge to the rear of the picture.



Figure 13 Looking east to south into a major upper tributary on the true right of Lauder Creek and towards the Lauder Basin Conservation Area from the Lauder/Cluden boundary at approximately GR NZMS 260 G40 433905. A track along this ridge extends beyond the lease in both directions, giving access to the wider Dunstan Mountains.



Figure 14 Close up of ground cover on Lauder/Cluden boundary at approximately GR NZMS 260 G41 399 863. Lower photo shows fence below the lease boundary.



Figure 15 Close up of ground cover on Lauder/Cluden boundary at approximately GR NZMS 260 G41 406 857



Figure 16 Gold workings east of Lauder Station Road at approximately GRNZMS 260 H41 923810.

4.4 Appendices

Appendix One Land Environments of New Zealand Environment Descriptions

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Appendix Eight New Zealand Deerstalkers Association Southern Lakes Branch Written Submission

APPENDIX ONE Land Environments of New Zealand Unit Descriptions

From: Leathwick J, Morgan F, Wilson G, Rutledge D, McLeod M, Johnston K. (2002) Land Environments of New Zealand : Technical Guide. Ministry for the Environment

| Environment | Level III Descriptions | Level IV variations (if any) |
|-------------------------|---|--|
| N3.1d | Elevation 300 m Located in Otago, Timaru, Oamaru on undulating plains. Cool temperatures, moderate solar radiation, moderate vapour pressure deficits, moderate annual water deficits. Imperfectly drained soils of moderate fertility from greywacke alluvium with some loess. | |
| N3.2a | Elevation 535 m Located in inland Otago on undulating plains. Cool temperatures, moderate solar radiation, moderate vapour pressure deficits, moderate annual water deficits. Imperfectly drained soils of moderate fertility from Tertiary mudstones and sandstones with gravels. | |
| N4.1d | Elevation of 495m in Central Otago, Alexandra and Lake Waitaki on rolling lower hillslopes and basin floors. Cool temperatures, moderate solar radiation, moderate vapour pressure deficits, very low monthly water balance ratios, moderate annual water deficits. Well drained soils drained of moderate fertility from schist and greywacke. | d. warmer winter temperatures, steep hills |
| N5.1a N5.1b | Elevation 425m around Ranfurly and Wanaka. On very gently undulating plains. Cool temperatures, moderate solar radiation, high vapour pressure deficits, very high annual water deficits. Imperfectly drained soils of moderate fertility from a mixture of colluvium and loess from greywacke and schist. | b. Cooler winter temperatures, imperfect drainage. |
| Q1.1a Q1.1b Q1.1c | Elevation 1095 m Located in Hawkdun Range, Grampian Mountains and Hunter Hills, Eyre and Harris Mountains South Canterbury, ranges of inland Otago. Steep mountains. Cold temperatures, moderate solar radiation, low vapour pressure deficits, low monthly water balance ratios, slight annual water deficits. Soils are well drained and of moderate, fertility from greywacke, schist. | a. much cooler temperatures, lower vapour pressure deficits, strongly rolling mountainous terrain. b. As for Q1.1 c. very steep mountainous terrain. |
| Q1.2a | Elevation 1305 m Located in the Eyre and Harris Mountains , ranges of inland Otago, Takitimu Mountains. Very Steep mountains. Very cold temperatures, moderate solar radiation, low vapour pressure deficits, intermediate monthly water balance ratios, no annual water deficits. Soils are well drained and of moderate, fertility from greywacke, rock, colluvium and basalt. | |
| Q2.2a | Elevation 730 m Located in the Hawkdun Range, Grampian Mountains and Hunter Hills in South Canterbury, Takitimu mountains, southern end of the Two Thumb Range. Steep mountains. Cool temperatures, moderate solar radiation, moderate vapour pressure deficits, low monthly water balance ratios, low annual water deficits. Soils are imperfectly drained and of moderate fertility from schist | |

| Environment | Level III Descriptions | Level IV variations (if any) |
|-------------------------|---|--|
| Q3.3a Q3.3b Q3.3c | Elevation 990 m Located in the Garvie Mountains and the North Rough, Knobby, Lammerlaw and Rock and Pillar Ranges. Undulating mountains. Cold temperatures, moderate solar radiation, moderate vapour pressure deficits, low monthly water balance ratios, low annual water deficits. Soils are imperfectly drained and of moderate fertility from schist | a. much cooler annual temperatures, lower vapour pressure deficits, higher monthly water balance ratios, much lower annual water deficits. b. warmer annual temperatures, cooler winter temperatures, higher vapour pressure deficits, lower monthly water balance ratios, much higher annual water deficits. c. much lower annual water deficits. |

APPENDIX TWO Lauder Pastoral Lease Botanical Species List January 2006

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|--|-------------------|----------------------------------|-----------------|------------------------|----------------|
| Gymnosperms | | | | | |
| <i>Podocarpus totara</i> var. <i>totara</i> | Rare | Spur above Woolshed Creek | Not threatened | totara | Podocarpaceae |
| <i>Podocarpus nivalis</i> | Local | Bluff shrublands | Locally Notable | snow totara | Podocarpaceae |
| Dicotyledonous trees, shrubs and vines | | | | | |
| <i>Acrothamnus colensoi</i> (ex. <i>Leucopogon colensoi</i> / <i>L. suaveolens</i>) | Occasional | Higher elevations | Not threatened | | Ericaceae |
| <i>Aristotelia fruticosa</i> | Rare | Shrublands | Not threatened | small-leaved wineberry | Elaeocarpaceae |
| <i>Carmichaelia crassicaule</i> | Local | Several sites | Gradual Decline | coral broom | Fabaceae |
| <i>Carmichaelia petriei</i> | Occasional | Lower elevations | Not threatened | | Fabaceae |
| <i>Carmichaelia vexillata</i> | Local | Saddle fellfield | Serious Decline | | Fabaceae |
| <i>Clematis marata</i> | Local | Shrublands | Not threatened | | Ranunculaceae |
| <i>Coprosma cheesemanii</i> | Local | Bluff shrublands | Not threatened | | Rubiaceae |
| <i>Coprosma fowerakeri</i> | Rare | Bluff shrublands | Not threatened | | Rubiaceae |
| <i>Coprosma propinqua</i> subsp. "propinqua" | Local | Shrublands | Not threatened | | Rubiaceae |
| <i>Coprosma tayloriae</i> (ex <i>Coprosma "taylorae"</i> (<i>C. parviflora</i> var. <i>dumosa</i> , <i>C. sp. (t)</i> , <i>C. sp. 27</i>) in part) | Rare | Bluff shrublands | Not threatened | | Rubiaceae |
| <i>Coriaria plumosa</i> | Rare | Lauder Creek | Not threatened | feathery tutu | Coriariaceae |
| <i>Coriaria sarmentosa</i> | Local | Lauder Creek | Not threatened | tutu | Coriariaceae |
| <i>Corokia cotoneaster</i> agg. | Rare | Bluff shrublands | Not threatened | corokia | Cornaceae |
| <i>Cytisus scoparius</i> | Local | Flats | Exotic | broom | Fabaceae |
| <i>Discaria toumatou</i> | Common | Lower elevations | Not threatened | matagouri | Rhamnaceae |
| <i>Dracophyllum muscoides</i> | Local | Fellfield | Not threatened | prostrate inaka | Epacridaceae |
| <i>Dracophyllum pronum</i> | Local | Rocky sites at higher elevations | Not threatened | | Epacridaceae |
| <i>Dracophyllum uniflorum</i> var. <i>uniflorum</i> | Local | Lauder Creek | Not threatened | turpentine scrub | Epacridaceae |
| <i>Gaultheria crassa</i> | Local | Tors | Not threatened | snowberry | Ericaceae |
| <i>Gaultheria depressa</i> var. <i>depressa</i> | Occasional | Rocky sites at higher elevations | Not threatened | snowberry | Ericaceae |
| <i>Gaultheria depressa</i> var. <i>novae-zelandiae</i> | Rare | Tors | Not threatened | snowberry | Ericaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|---|--------------------------|--|-----------------------|-----------------------|---|
| <i>Hebe buchananii</i> | Local | Rocky sites at higher elevations | Not threatened | | Plantaginaceae (ex. Scrophulariaceae) |
| <i>Hebe lycopodioides</i> subsp. "lycopodioides" | Rare | Tussockland | Not Threatened | | Plantaginaceae (ex. Scrophulariaceae) |
| <i>Hebe rakaiensis</i> | Rare | Streamsides | Not threatened | | Plantaginaceae (ex. Scrophulariaceae) |
| <i>Hebe salicifolia</i> | Rare | Woolshed Creek | Not threatened | koromiko | Plantaginaceae (ex. Scrophulariaceae) |
| <i>Kunzea ericoides</i> s.l. | Common | Woolshed and Donald Stuarts Creeks. On dry spurs and faces | Locally Notable | kanuka | Myrtaceae |
| <i>Leycesteria formosa</i> | Rare | One plant on bluff in Lauder Creek | Exotic | Himalayan honeysuckle | Caprifoliaceae |
| <i>Melicytus aff. alpinus</i> (erect) | Occasional | Throughout | Not threatened | porcupine shrub | Violaceae |
| <i>Muehlenbeckia australis</i> | Local | Woolshed Creek | Not threatened | large-leaved pohuehue | Polygonaceae |
| <i>Muehlenbeckia axillaris</i> | Local | Streamsides, tailings | Not threatened | | Polygonaceae |
| <i>Muehlenbeckia complexa</i> agg. | Occasional | Lower elevations | Not threatened | small-leaved pohuehue | Polygonaceae |
| <i>Myrsine nummularia</i> | Local | Bluff shrublands | Not threatened | | Myrsinaceae |
| <i>Olearia bullata</i> | Local | Woolshed Creek | Not threatened | | Asteraceae |
| <i>Olearia fimbriata</i> | Rare | One location | Serious Decline | | Asteraceae |
| <i>Olearia fragrantissima</i> | Rare | One plant in Lauder Creek | Sparse | fragrant tree daisy | Asteraceae |
| <i>Olearia lineata</i> | Local | Woolshed Creek | Sparse | | Asteraceae |
| <i>Olearia odorata</i> | Local | Shrublands | Not threatened | | Asteraceae |
| <i>Ozothamnus leptophyllus</i> (<i>Cassinia fulvida</i>) | Occasional | Throughout | Not threatened | tauhinau | Asteraceae |
| <i>Parsonsia capsularis</i> | Rare | Woolshed Creek | Not threatened | native jasmine | Apocynaceae |
| <i>Pimelea oreophila</i> (green, bushy form = <i>P. "eastern South Island"?</i>) | Occasional | Higher elevations | Not threatened | | Thymeleaceae |
| <i>Populus nigra</i> | Local | Woolshed Creek. Seedlings present | Exotic | Lombardy poplar | Salicaceae |
| <i>Rosa rubiginosa</i> | Common | Lower elevations | Exotic | sweet briar | Rosaceae |
| <i>Rubus schmidelioides</i> var. <i>subpauperatus</i> | Local | Shrublands | Not threatened | bush lawyer | Rosaceae |
| <i>Sambucus nigra</i> | Occasional | Lower elevations | Exotic | elder | Caprifoliaceae |
| <i>Solanum dulcamara</i> | Rare | Shrublands | Exotic | bittersweet | Solanaceae |
| <i>Ulex europaeus</i> | Local | Flats | Exotic | gorse | Fabaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|---|-------------------|----------------------------------|-----------------|----------------------|---------------------------------------|
| Dicotyledonous herbs (including composites) | | | | | |
| <i>Epilobium macropus</i> | Local | Streamsides | Not Threatened | | Onagraceae |
| <i>Epilobium melanocaulon</i> | Rare | Streamsides | Not threatened | | Onagraceae |
| <i>Epilobium microphyllum</i> | Local | Streamsides | Not threatened | | Onagraceae |
| <i>Epilobium pubens</i> | Local | Tors | Not threatened | | Onagraceae |
| <i>Epilobium rotundifolium</i> | Local | Streamsides | Not threatened | | Onagraceae |
| <i>Erodium cicutarium</i> | Local | Tailings | Exotic | storksbill | Geraniaceae |
| <i>Euchiton audax</i> | Rare | Tussockland | Not Threatened | | Asteraceae |
| <i>Euchiton lateralis</i> | Local | Wetlands | Not threatened | | Asteraceae |
| <i>Euphrasia zelandica</i> agg. | Occasional | Higher elevations | Not threatened | | Orobanchaceae |
| <i>Galium aparine</i> | Rare | Woolshed Creek | Exotic | cleavers | Rubiaceae |
| <i>Galium propinquum</i> | Local | Tor bases | Not threatened | mawe | Rubiaceae |
| <i>Galium</i> sp. aff. <i>Perpusillum</i> | Local | Wetlands | Not threatened | | Rubiaceae |
| <i>Gaultheria parvula</i> | Local | Wetlands | Not threatened | | Ericaceae |
| <i>Gentianella grisebachii</i> | Rare | Wetlands | Not threatened | | Gentianaceae |
| <i>Geranium microphyllum</i> | Occasional | Higher elevations | Not threatened | | Geraniaceae |
| <i>Geranium sessiliflorum</i> subsp. <i>novaezelandiae</i> var. <i>novaezelandiae</i> | Occasional | Dry areas | Not threatened | | Geraniaceae |
| <i>Geum leiospermum</i> | Local | Tor bases | Not threatened | | Rosaceae |
| <i>Gratiola sexdentata</i> | Rare | Tarn | Locally Notable | | Plantaginaceae (ex. Scrophulariaceae) |
| <i>Hectorella caespitosa</i> | Local | Fellfield | Not threatened | | Portulacaceae |
| <i>Helichrysum filicaule</i> | Occasional | Lower elevations | Not threatened | | Asteraceae |
| <i>Helichrysum intermedium</i> | Local | Bluffs | Not threatened | | Asteraceae |
| <i>Hieracium aurantiacum</i> | Rare | One locality | Exotic | orange hawkweed | Asteraceae |
| <i>Hieracium lepidulum</i> | Occasional | Throughout | Exotic | tussock hawkweed | Asteraceae |
| <i>Hieracium pilosella</i> subsp. <i>Pilosella</i> | Common | Particularly at lower elevations | Exotic | mouse-eared hawkweed | Asteraceae |
| <i>Hieracium praealtum</i> | Local | Lauder Creek | Exotic | king devil | Asteraceae |
| <i>Hydrocotyle "montana"</i> | Occasional | Throughout | Not Threatened | | Apiaceae |
| <i>Hypericum perforatum</i> | Occasional | Dry areas | Exotic | St John's wort | Clusiaceae |
| <i>Hypochoeris radicata</i> | Occasional | Throughout | Exotic | catsear | Asteraceae |
| <i>Hypsela rivalis</i> | Local | Montane wetlands | Not threatened | | Campanulaceae |
| <i>Kelleria croizatii</i> | Local | Cushionfield | Not threatened | | Thymeleaceae |
| <i>Kelleria dieffenbachii</i> | Occasional | Fellfield | Not threatened | | Thymeleaceae |
| <i>Kirkianella novae-zelandiae</i> f. <i>novae-zelandiae</i> | Rare | Several sites | Sparse | | Asteraceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|---|--------------------------|---|---------------------------|----------------------------|------------------|
| <i>Lagenifera barkeri</i> | Local | Streamsides | Not threatened | | Asteraceae |
| <i>Lapsana communis</i> | Rare | Lower elevations | Exotic | nipplewort | Asteraceae |
| <i>Leptinella "seep"</i> | Local | Montane wetlands | Unknown | | Asteraceae |
| <i>Leptinella pectinata</i> subsp. <i>Villosa</i> | Local | Tor bases | Not threatened | | Asteraceae |
| <i>Leptinella pusilla</i> (<i>Cotula perpusilla</i>) | Local | Tor bases | Not threatened | | Asteraceae |
| <i>Leptinella squalida</i> subsp. <i>Mediana</i> | Rare | Bluffs | Not threatened | | Asteraceae |
| <i>Leptostigma setulosa</i> (ex. <i>Nertera setulosa</i>) | Local | wet areas | Not threatened | | Rubiaceae |
| <i>Leucopogon fraseri</i> complex (mountain ecotype) | Occasional | Throughout | Not threatened | | Ericaceae |
| <i>Linum catharticum</i> | Occasional | Lower elevations | Exotic | purging flax | Linaceae |
| <i>Lobelia linnaeoides</i> | Rare | Tussockland | Not Threatened | | Lobeliaceae |
| <i>Malva neglecta</i> | Local | Tailings | Exotic | dwarf mallow | Malvaceae |
| <i>Mentha cunninghamii</i> | Rare | Streamsides | Not threatened | NZ mint | Lamiaceae |
| <i>Mimulus moschatus</i> | Local | wet areas | Exotic | musk | Scrophulariaceae |
| <i>Montia fontana</i> subsp. <i>Fontana</i> | Local | wet areas | Exotic | blinks | Portulacaceae |
| <i>Mycelis muralis</i> | Local | Shrublands | Exotic | wall lettuce | Asteraceae |
| <i>Myosotis "drucei"</i> (<i>M.</i> <i>pygmaea</i> var. <i>drucei</i>) | Rare | One locality | Regionally Significant | Druce's forget- me-not | Boraginaceae |
| <i>Myosotis "glauca"</i> (<i>M.</i> <i>pygmaea</i> var. <i>glauca</i>) | Local | Several sites | Endangered | Kaimanawa forget-me-not | Boraginaceae |
| <i>Myosotis aff. australis</i> (AK 231051; "small white") | Local | Shady cliff bases in Lauder Creek | Sparse | | Boraginaceae |
| <i>Myosotis arvensis</i> | Rare | Tussockland | Exotic | field forget-me- not | Boraginaceae |
| <i>Myosotis elderi</i> s.s. agg. | Rare | Two sites in fellfield | Locally Notable | | Boraginaceae |
| <i>Myosotis laxa</i> | Local | wet areas | Exotic | water forget- me-not | Boraginaceae |
| <i>Myosotis oreophila</i> | Local | Saddle fellfield | Range Restricted | | Boraginaceae |
| <i>Myriophyllum</i> <i>propinquum</i> | Local | Tarn | Not threatened | | Haloragaceae |
| <i>Navarretia squarrosa</i> | Local | Tailings | Exotic | Californian stinkweed | Polemoniaceae |
| <i>Neopaxia sessiliflora</i> (Garvie, Dunstan form)? Or <i>N.</i> <i>sessiliflora</i> s.s. | Local | Rocky sites at higher elevations and damp turfs | Not threatened | | Portulacaceae |
| <i>Oreomyrrhis "bog"</i> | Local | Wetlands | Unknown | | Umbelliferae |
| <i>Oreomyrrhis colensoi</i> var. <i>colensoi</i> | Occasional | Tussockland | Not threatened | | Umbelliferae |
| <i>Oreomyrrhis ramosa</i> s.l. | Local | Tor bases | Not threatened | | Umbelliferae |
| <i>Ourisia caespitosa</i> var. <i>gracilis</i> | Local | Streamsides | Not threatened | | Scrophulariaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|---|--------------------------|---|-----------------------|-------------------------------|------------------|
| <i>Ourisia glandulosa</i> | Local | Higher elevations | Not threatened | | Scrophulariaceae |
| <i>Oxalis exilis</i> | Occasional | Lower elevations | Not threatened | native yellow-flowered oxalis | Oxalidaceae |
| <i>Pachycladon cheesemanii</i> | Rare | Overhangs | Gradual Decline | | Brassicaceae |
| <i>Pachycladon novae-zelandiae</i> | Local | Tors and fellfield | Not Threatened | | Brassicaceae |
| <i>Pentachondra pumila</i> | Occasional | Higher elevations | Not threatened | | Epacridaceae |
| <i>Phyllachne colensoi</i> | Local | Cushionfield | Not threatened | | Styliadiaceae |
| <i>Phyllachne rubra</i> | Local | Cushionfield | Not threatened | | Styliadiaceae |
| <i>Plantago lanigera</i> | Local | Snowbanks and wetland margins | Not threatened | hairy swamp plantain | Plantaginaceae |
| <i>Plantago triandra</i> subsp. <i>Triandra</i> | Local | Wetlands | Not threatened | | Plantaginaceae |
| <i>Polygonum aviculare</i> | Local | Tailings | Exotic | wireweed | Polygonaceae |
| <i>Pratia angulata</i> | Local | Streamsides | Not threatened | | Campanulaceae |
| <i>Pratia macrodon</i> s.s. | Rare | Higher elevations | Not threatened | | Campanulaceae |
| <i>Prunella vulgaris</i> | Local | Damp sites | Exotic | selfheal | Lamiaceae |
| <i>Pseudognaphalium</i> "inland" (ex. <i>P. luteo-album</i> in part) | Local | Overhangs | Not threatened | | Asteraceae |
| <i>Psychrophila obtusa</i> (<i>Caltha obtusifolia</i>) | Local | Wetlands | Not Threatened | White caltha | Ranunculaceae |
| <i>Ranunculus brevis</i> | Rare | Tarn. Southern extension of known range | Range Restricted | | Ranunculaceae |
| <i>Ranunculus foliosus</i> | Local | Streamsides | Not threatened | | Ranunculaceae |
| <i>Ranunculus gracilipes</i> | Local | Wetlands | Not threatened | | Ranunculaceae |
| <i>Ranunculus maculatus</i> | Local | Wetlands | Sparse | | Ranunculaceae |
| <i>Ranunculus multiscapus</i> (ex. <i>R. lappaceus</i>) | Local | Tor bases | Not threatened | | Ranunculaceae |
| <i>Ranunculus trichophyllum</i> | Local | Coal pit | Exotic | water buttercup | Ranunculaceae |
| <i>Raoulia apice-nigra</i> | Occasional | Dry areas | Not threatened | scabweed | Asteraceae |
| <i>Raoulia australis</i> s.s. | Local | Dry areas | Not threatened | scabweed | Asteraceae |
| <i>Raoulia grandiflora</i> | Occasional | Higher elevations | Not threatened | | Asteraceae |
| <i>Raoulia parkii</i> | Local | Dry areas | Not Threatened | Celadon mat daisy | Asteraceae |
| <i>Raoulia subsericea</i> | Occasional | Throughout | Not threatened | | Asteraceae |
| <i>Raoulia tenericaulis</i> | Local | Streamsides | Not threatened | scabweed | Asteraceae |
| <i>Rorippa microphyllum</i> | Local | wet areas | Exotic | watercress | Brassicaceae |
| <i>Rumex acetosella</i> | Common | Throughout | Exotic | sheep's sorrel | Polygonaceae |
| <i>Rumex obtusifolius</i> | Rare | Woolshed Creek | Exotic | broad-leaved dock | Polygonaceae |
| <i>Sagina procumbens</i> | Occasional | Damp sites | Exotic | procumbent pearlwort | Caryophyllaceae |
| <i>Schizeilema exiguum</i> | Rare | Fellfield | Not threatened | | Umbelliferae |
| <i>Schizeilema haastii</i> var. <i>cyanopetalum</i> | Local | Tor bases | Not Threatened | | Umbelliferae |
| <i>Schizeilema hydrocotyloides</i> | Local | Fellfield | Not Threatened | | Apiaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|--|-------------------|------------------|-----------------|-----------------------|------------------|
| <i>Schizeilema trifoliatum</i> | Rare | Overhangs | Not threatened | | Umbelliferae |
| <i>Scleranthus brockiei</i> | Occasional | Throughout | Not threatened | | Caryophyllaceae |
| <i>Scleranthus uniflorus</i> | Occasional | Dry areas | Not threatened | | Caryophyllaceae |
| <i>Senecio "discoideus"</i> (<i>S. glaucophyllum</i> subsp. <i>Discoideus</i>) | Rare | Bluffs | Locally Notable | | Asteraceae |
| <i>Senecio jacobea</i> | Local | Woolshed Creek | Exotic | ragwort | Asteraceae |
| <i>Spergularia media</i> | Local | Dry areas | Not threatened | | Caryophyllaceae |
| <i>Stellaria alsine</i> | Local | wet areas | Exotic | bog stitchwort | Caryophyllaceae |
| <i>Stellaria gracilenta</i> | Local | Tors | Not threatened | | Caryophyllaceae |
| <i>Stellaria media</i> | Occasional | Lower elevations | Exotic | chickweed | Caryophyllaceae |
| <i>Stellaria parviflora</i> | Rare | Tor bases | Not threatened | New Zealand chickweed | Caryophyllaceae |
| <i>Taraxacum officinale</i> | Occasional | Throughout | Exotic | dandelion | Asteraceae |
| <i>Trifolium arvense</i> | Occasional | Lower elevations | Exotic | haresfoot trefoil | Fabaceae |
| <i>Trifolium dubium</i> | Occasional | Lower elevations | Exotic | suckling clover | Fabaceae |
| <i>Trifolium glomeratum</i> | Local | Tailings | Exotic | clustered clover | Fabaceae |
| <i>Trifolium repens</i> | Occasional | Throughout | Exotic | white clover | Fabaceae |
| <i>Urtica incise</i> | Local | Overhangs | Not threatened | | Urticaceae |
| <i>Verbascum thapsus</i> | Occasional | Lower elevations | Exotic | woolly mullein | Scrophulariaceae |
| <i>Viola cunninghamii</i> | Occasional | Tussockland | Not threatened | | Violaceae |
| <i>Viola lyallii</i> | Rare | Boulderfields | Not threatened | | Violaceae |
| <i>Vittadinia australis</i> agg. | Local | Dry areas | Data Deficient | white fuzzweed | Asteraceae |
| <i>Wahlenbergia albomarginata</i> subsp. <i>Albomarginata</i> | Occasional | Throughout | Not threatened | harebell | Campanulaceae |

Grasses

| | | | | | |
|--|------------|-------------------|----------------|----------------------------|---------------|
| <i>Agrostis capillaris</i> | Common | Lower elevations | Exotic | brown top | Agrostidinae |
| <i>Agrostis muelleriana</i> | Occasional | Higher elevations | Not threatened | | Agrostidinae |
| <i>Agrostis muscosa</i> | Local | Snowbanks | Not threatened | pincushion grass | Agrostidinae |
| <i>Agrostis pallens</i> (<i>A.</i> "Dunstan"?) | Local | Wetlands | Unknown | | Agrostidinae |
| <i>Aira caryophyllea</i> subsp. <i>caryophyllea</i> | Local | Dry areas | Exotic | silvery hair grass | Aveninae |
| <i>Anthoxanthum odoratum</i> | Common | Lower elevations | Exotic | sweet vernal | Phalaridinae |
| <i>Bromus hordeaceus</i> | Local | Dry areas | Exotic | soft brome | Bromeae |
| <i>Chionochloa macra</i> | Common | Above c. 1200m | Not threatened | slim snow tussock | Danthoniinae |
| <i>Chionochloa rigida</i> subsp. <i>Rigida</i> | Abundant | Below c. 1200m | Not threatened | narrow-leaved snow-tussock | Danthoniinae |
| <i>Cortaderia richardii</i> | Local | Streamside | Not threatened | South Island toetoe | Cortaderiinae |
| <i>Critis muriatum</i> subsp. | Local | Dry areas | Exotic | barley grass | Hordeae |
| <i>Cynosurus cristatus</i> | Occasional | Lower elevations | Exotic | crested dogstail | Poeae |
| <i>Dactylis glomerata</i> | Local | Lower elevations | Exotic | cocksfoot | Poeae |
| <i>Elymus solandri</i> | Occasional | Throughout | Not threatened | | Hordeae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|---|--------------------------|----------------------------------|-----------------------|----------------------|---------------|
| <i>Festuca matthewsii</i> subsp. <i>pisamontis</i> | Local | Fellfield | Range Restricted | | Poeae |
| <i>Festuca novae-zelandiae</i> | Common | Lower elevations | Not threatened | hard tussock | Poeae |
| <i>Festuca rubra</i> subsp. <i>Commutata</i> | Rare | Wetlands | Exotic | Chewings fescue | Poeae |
| <i>Glyceria fluitans</i> | Local | Tailing ponds | Exotic | floating sweet grass | Meliceae |
| <i>Hierochloe redolens</i> | Rare | Lauder Stream | Not threatened | scented holy grass | Phalaridinae |
| <i>Holcus lanatus</i> | Occasional | Lower elevations | Exotic | Yorkshire fog | Aveninae |
| <i>Koeleria cheesemanii</i> | Occasional | Higher elevations | Not threatened | | Aveninae |
| <i>Koeleria novozelandica</i> | Rare | Rocky sites at higher elevations | Not threatened | | Aveninae |
| <i>Lolium perenne</i> | Occasional | Lower elevations | Exotic | perennial ryegrass | Poeae |
| <i>Poa cita</i> agg. | Local | Lower elevations | Not threatened | silver tussock | Poeae |
| <i>Poa colensoi</i> s.l. | Common | Throughout | Not threatened | blue tussock | Poeae |
| <i>Poa imbecilla</i> | Local | Overhangs | Not threatened | | Poeae |
| <i>Poa lindsayi</i> | Occasional | Higher elevations | Not threatened | | Poeae |
| <i>Poa maniatoto</i> | Local | Dry areas | Not threatened | desert poa | Poeae |
| <i>Poa matthewsii</i> | Local | Overhangs | Not Threatened | | Poeae |
| <i>Rytidosperma australe</i> | Local | Cushionfield and snowbanks | Not threatened | | Danthoniinae |
| <i>Rytidosperma buchananii</i> | Occasional | Rocky sites at higher elevations | Not threatened | | Danthoniinae |
| <i>Rytidosperma pumilum</i> | Local | Rocky sites at higher elevations | Not threatened | | Danthoniinae |
| <i>Rytidosperma pumilum</i> | Occasional | Cushionfield | Not threatened | | Danthoniinae |
| <i>Rytidosperma unarede</i> | Local | Tor bases | Not threatened | cliff fairy grass | Danthoniinae |
| <i>Trisetum lepidum</i> | Rare | Overhangs | Not threatened | | Aveninae |
| Rushes and Sedges | | | | | |
| <i>Carex berggrenii</i> | Rare | Wetlands | Sparse | | Cyperaceae |
| <i>Carex breviculmis</i> | Occasional | Dry sites | Not threatened | | Cyperaceae |
| <i>Carex buchananii</i> | Rare | Streamsides | Not threatened | | Cyperaceae |
| <i>Carex comans</i> | Rare | Woolshed Creek | Not Threatened | | Cyperaceae |
| <i>Carex coriacea</i> | Local | Wetlands | Not threatened | | Cyperaceae |
| <i>Carex guadichaudiana</i> | Local | Wetlands | Not threatened | | Cyperaceae |
| <i>Carex hectorii</i> (small; dry cushion field) | Rare | Fellfield | Unknown | | Cyperaceae |
| <i>Carex kaloides</i> | Rare | Two sites in Woolshed Creek | Not threatened | | Cyperaceae |
| <i>Carex lachenalii</i> subsp. <i>Parkeri</i> | Local | Wetlands | Not threatened | | Cyperaceae |
| <i>Carex ovalis</i> | Rare | Wetlands | Exotic | oval sedge | Cyperaceae |
| <i>Carex petriei</i> | Local | Woolshed Creek | Not threatened | | Cyperaceae |
| <i>Carex wakatipu</i> agg. | Occasional | Higher elevations | Not threatened | | Cyperaceae |
| <i>Eleocharis acuta</i> | Local | Coal pit and Tarn | Not threatened | sharp spike-sedge | Cyperaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|--|--------------------------|-------------------|-----------------------|-----------------------|------------------|
| <i>Eleocharis gracilis</i> | Local | Wet sites | Not threatened | slender spike-sedge | Cyperaceae |
| <i>Isolepis aucklandicus</i> | Rare | Wetlands | Not threatened | | Cyperaceae |
| <i>Juncus articulatus</i> | Local | Wet sites | Exotic | jointed rush | Juncaceae |
| <i>Juncus effuses</i> | Local | Wet sites | Exotic | soft rush | Juncaceae |
| <i>Juncus pusillus</i> | Local | Wetlands | Not Threatened | | Juncaceae |
| <i>Luzula banksiana</i> var. <i>rhadina</i> | Local | Tors | Not threatened | | Juncaceae |
| <i>Luzula leptophylla</i> | Occasional | Rocky sites | Not threatened | woodrush | Juncaceae |
| <i>Luzula picta</i> var. | Local | Tor bases | Not threatened | woodrush | Juncaceae |
| <i>Luzula pumila</i> | Local | Wetlands | Not threatened | woodrush | Juncaceae |
| <i>Luzula rufa</i> var. <i>rufa</i> | Occasional | Throughout | Not threatened | woodrush | Juncaceae |
| <i>Oreobolus pectinatus</i> | Local | Wetlands | Not threatened | comb sedge | Cyperaceae |
| <i>Schoenus pauciflorus</i> "short" | Local | Wetlands | Not threatened | bog-rush | Cyperaceae |
| <i>Uncinia fuscovaginata</i> | Occasional | Higher elevations | Not threatened | | Cyperaceae |
| <i>Uncinia viridis</i> | Rare | Overhangs | Sparse | | Cyperaceae |
| Monocotyledons (other) | | | | | |
| <i>Bulbinella angustifolia</i> | Common | Throughout | Not threatened | maori onion | Liliaceae |
| " <i>Lemna minor</i> " | Local | Wet sites | Not threatened | duckweed | Lemnaceae |
| <i>Microtis</i> aff. <i>unifolia</i> (smaller, flws more spaced) | Rare | Lauder Stream | Not threatened | | Orchidaceae |
| <i>Phormium cookianum</i> subsp. <i>Cookianum</i> | Local | Tors | Not threatened | mountain flax | Agavaceae |
| <i>Potamogeton cheesemanii</i> | Local | Coal pit | Not threatened | pondweed | Potamogetonaceae |
| <i>Potamogeton crispus</i> | Local | Coal pit | Exotic | curled pondweed | Potamogetonaceae |
| <i>Prasophyllum colensoi</i> s.s. | Occasional | Throughout | Not threatened | | Orchidaceae |
| Ferns and Allies | | | | | |
| <i>Asplenium flaccidum</i> subsp. <i>Flaccidum</i> | Rare | Shrublands | Not threatened | hanging spleenwort | Aspleniaceae |
| <i>Asplenium hookerianum</i> | Rare | Lower elevations | Not threatened | Hooker's spleenwort | Aspleniaceae |
| <i>Asplenium richardii</i> | Occasional | Tors | Not threatened | | Aspleniaceae |
| <i>Asplenium trichomanes</i> | Rare | Overhangs | Not threatened | maidenhair spleenwort | Aspleniaceae |
| <i>Blechnum pennarum</i> | Occasional | Higher elevations | Not threatened | | Blechnaceae |
| <i>Blechnum vulcanicum</i> | Rare | Bluffs | Not threatened | | Blechnaceae |
| <i>Cystopteris tasmanica</i> | Rare | Tors | Not threatened | bladder fern | Dryopteridaceae |
| <i>Grammitis patagonica</i> | Local | Overhangs | Not threatened | | Grammitidaceae |
| <i>Grammitis poeppigiana</i> | Local | Tors | Not threatened | | Grammitidaceae |

| | Abundance at site | Notes | Threat ranking | Common name | Family |
|------------------------------------|--------------------------|-------------------|-----------------------|----------------------|------------------|
| <i>Hymenophyllum multifidum</i> | Local | Overhangs | Not threatened | | Hymenophyllaceae |
| <i>Hypolepis millefolium</i> | Local | Tor bases | Not threatened | thousand-leaved fern | Dennstaedtiaceae |
| <i>Lycopodium fastigiatum</i> | Occasional | Higher elevations | Not threatened | mountain clubmoss | Lycopodiaceae |
| <i>Ophioglossum coriaceum</i> agg. | Local | Higher elevations | Not threatened | adder's tongue | Ophioglossaceae |
| <i>Pellaea calidirupium</i> | Rare | Outcrops | Not threatened | | Pteridaceae |
| <i>Polystichum cytostegia</i> | Rare | Higher elevations | Not threatened | alpine shield fern | Dryopteridaceae |
| <i>Polystichum vestitum</i> | Local | Tor bases | Not threatened | prickly shield fern | Dryopteridaceae |
| <i>Pteridium esculentum</i> | Local | Bluffs | Not threatened | bracken | Dennstaedtiaceae |

APPENDIX THREE **Lauder Pastoral Lease Invertebrate Species List January 2006**

| Class | Order | Family | Genus species | Collection site | Taxonomic and Conservation status* |
|---------------------------|----------------|--------------------|---|---|---|
| Arachnida | Araneae | Agelenidae | <i>Neoramia childi</i> Forster and Wilton | 14 | Endemic species, not threatened. |
| | | Araneidae | <i>Coloranea viriditas</i> Urq. | 15 | Common and widespread orb web spider. Not threatened. |
| | | Clubionidae | <i>Clubiona</i> sp. | 13,27 | Native hunting spiders. Widespread and common. |
| | | Cycloctenidae | <i>Cycloctenus westlandicus</i> Forster | 10 | Endemic southern 'scuttling' spider. Not threatened. |
| | | Gnaphosidae | <i>Matua valida</i> Forster & Blest | 10,14 | Threatened (data deficient) endemic species restricted to Otago and Canterbury. |
| | | Lycosidae | <i>Anoteropsis flavescens</i> L. Koch | 5 | Wolf spider. Endemic species restricted to Otago. Ex. pitfall trap, tall tussock habitat. |
| | | Lycosidae | <i>Anoteropsis hilaris</i> L. Koch | 24,26 | Common and widespread endemic wolf spider. |
| | | Miturgidae | <i>Miturga</i> species A | 10 | Endemic prowling spiders. Not threatened. |
| | | Miturgidae | <i>Miturga</i> species B | 25 | Endemic prowling spiders. Not threatened. |
| | | Pisuridae | <i>Dolomedes aquaticus</i> Goyen | 16 | Endemic water spider, threatened (data deficient). |
| | | Pisuridae | <i>Dolomedes minor</i> L. Koch | 9 | Native nursery web spider. Not threatened. |
| | | Salticidae | <i>Holoplatys</i> sp. | 11 | Native jumping spiders. Lacking information. |
| | | Tetragnathidae | <i>Tetragnatha</i> sp. | 15 | Endemic 'big jawed' spiders. Ex. sweep netting wetland grasses. |
| | | Opiliones | <i>Triaenonychidae:</i> <i>Laniatores</i> <i>Phalangiidae</i> | <i>Nuncia</i> sp. <i>Pantopsalis</i> sp. | 10 10,19 |
| Chilopoda (Centipedes) | Geophilomorpha | Geophilidae | <i>Zelanophilus provocator</i> Pocock | Throughout | Widespread and common soil centipede. |
| | Geophilomorpha | Henicopidae | <i>Paralamyctes</i> sp. | 28 | Relatively large native soil centipede. Conservation status unknown. |
| Diplopoda | Polydesmoidea | Sphaerotrichopidae | <i>Icosidesmus olivaceus</i> Carl | 10,27 | Endemic millipede. Not threatened |
| Crustacea | Amphipoda | Talitridae | <i>Talorchestia</i> sp. | 10 | Terrestrial amphipods. Native, not threatened. |
| Insecta | Blattodea | Blattidae | <i>Celatoblatta quinquemaculata</i> Johns | 1,2,4,5,6 | Common Otago endemic cockroach. Not threatened. |

| Class | Order | Family | Genus species | Collection site | Taxonomic and Conservation status* |
|--------------|--------------|--------------------------|--|---------------------------|---|
| Coleoptera | Coleoptera | Blattidae | <i>Parellipsidion inaculeatum</i> Johns | 2 | Endemic cockroach, not commonly seen. Feeds on rotting Celmisia and Astelia vegetation. Not threatened. |
| | | Byrrhidae | <i>Epichorius</i> sp. | 26 | Endemic moss beetles, widespread and common. |
| | | Byrrhidae | <i>Liochoria</i> sp. | 1,4,6 | Endemic moss beetles. Not threatened. |
| | | Carabidae | <i>Holcaspis implica</i> Butcher | 9,16 | Endemic eastern South Island species (Canterbury to Southland). Not threatened. |
| | Coleoptera | Carabidae | <i>Mecodema impressum</i> Laporte de Castelnau | 11,27 | A moderately widespread and common Central Otago species. Similar to <i>M. lucidum</i> . |
| | | Carabidae | <i>Mecodema lucidum</i> Larporte de Castelnau | 2,4,10,11,16,2 2,25,28 | An endemic southern South Island species. Not threatened. |
| | | Carabidae | <i>Neoferonia edax</i> Chaudoir | 27 | Endemic Otago species. Not threatened but restricted distribution. |
| Insecta | Coleoptera | Carabidae: Zolini | <i>Zolus</i> sp. | 13 | Genus of small endemic ground beetles. Conservation status unknown. |
| | | Cicindelidae | <i>Cicindela latecincta</i> White | 13 | Endemic tiger beetles. Common South Island species. |
| | | Cicindelidae | <i>Cicindela parryi</i> White | 13 | Common and widespread. Not threatened. |
| | | Coccinellidae | <i>Adalia bipunctata</i> L. | 22 | Introduced two spotted ladybird. |
| | | Coccinellidae | <i>Coccinella leonina</i> F. | 10 | Native orange spotted ladybird. |
| | | Coccinellidae | <i>Coccinella undecimpunctata</i> L. | 6 | Eleven spotted ladybird. Introduced. |
| | | Curculionidae | <i>Inophloeus sulcifer</i> Broun | 1,2,28 | Endemic speargrass weevil. Not threatened but susceptible to predation by rats and mice. |
| | | Curculionidae: Eugnomini | Species A | 2,9 | Small speargrass weevils. |
| | | Curculionidae: Eugnomini | Species B | 16 | Small speargrass weevils. |
| | | Melyridae | <i>Dasytes</i> sp. | 8,27 | Native flower beetles. Ex. Celmisia spectabilis. Not threatened. |
| | | Scarabaeidae | <i>Costelytra zealandica</i> White | 6 | Common and widespread grass grub beetle. |
| | | Scarabaeidae | <i>Odontria ? striata</i> Broun | 15 | Common chafer beetle. |
| | | Scarabaeidae | <i>Pyronota festiva</i> L. | 9,10,15,16,17, | Common manuka beetle. Native, not threatened. |

| Class | Order | Family | Genus species | Collection site | Taxonomic and Conservation status* |
|--------------|--------------|--------------------------------|--|-----------------------------------|---|
| Insecta | Dermoptera | Tenebrionidae | <i>Artystona vicina</i> Sharp | 19 13,19,20,21,26 ,27,28,29 | Endemic Otago darkling beetle. |
| | | Forficulidae | <i>Forficula auricularia</i> L. | 6 | Introduced European earwig. |
| | Diptera | Acroceridae | <i>Ogcodes brunneus</i> Hutton | 27 | Endemic small-headed fly. Parasites of young spiders. |
| | Diptera | Asilidae | <i>Neoitamus</i> sp. | 27 | Native robber fly. |
| | | Calliphoridae | <i>Lucilia sericata</i> Meigen | 16 | Introduced blowfly. Ex. <i>Olearia odorata</i> . |
| | | Stratiomyidae | <i>Beris</i> sp. | 1,16 | Native soldier fly. Pollen feeders, ex. <i>Olearia odorata</i> |
| | | Syrphidae | <i>Melanostoma fasciatum</i> Macquart | 22 | Native hover fly. Widespread and common.. |
| | | Syrphidae | <i>Melangyna novaezelandiae</i> Macquart | 16,22,25 | Native large hover fly. Widespread and common.. |
| | | Syrphidae | <i>Syrphus</i> sp. | 22 | Native genus. |
| | Hemiptera | Therevidae | <i>Anarbrhyncus</i> sp. | 9 | Genus of native stiletto flies. One of 70 NZ species, 12 of which are threatened. |
| | | Tipulidae | <i>Austrotipula</i> sp. | 22 | Native giant crane fly. Ex. stream bank. |
| | | Tipulidae | <i>Leptotarsus montanus</i> Hutton | 22 | Endemic mountain crane fly. Maggots feed on tussock roots. |
| | | Tipulidae | <i>Leptotarsus</i> sp. | 6,22 | Native cranefly. Not threatened. |
| | | Acanthostomatidae | <i>Oncacontias vittatus</i> F. | 17 | Native stinkbug, widespread and common. |
| | | Acanthostomatidae | <i>Rhopalimorpha lineolaris</i> Pendergrast | 15 | Common and widespread associated with native monocotyledons. |
| | | Cercopidae: Auchenorrhyncha | <i>Arawa</i> sp. | 11 | Leaf hopper. Native species, genus occurs in Australia. Sweep netting Poa grass. |
| | | Cixiidae | <i>Cixius</i> sp. | 18 | Native planthopper, ex. <i>Coprosma propinqua</i> . |
| | | Corixidae | <i>Sigara arguta</i> White | 25 | Common native water bug. Ex. tarn, not threatened. |
| | | Lygaeidae | <i>Rhypodes</i> sp. Cf. <i>R. brachypterus</i> | 1 | Native genus, specimen beneath <i>Dracophyllum pronum</i> . |
| Insecta | Hemiptera | Miridae | <i>Bipuncticoris</i> sp. | 1,2 | Native Mirid bug, ex. Sweep netting |
| | Homoptera | Cicadidae | <i>Kikihia angusta</i> Walker | 6,9,25 | Native South Island tussock cicada. Common and widespread. |
| | Homoptera | Cicadidae | <i>Maoricicada otagoensis</i> Dugdale and Fleming | 1,10, 11,13,27,30 | Endemic Otago mountain cicada, found between 1000-1650m. |
| Insecta | Hymenoptera | Formicidae | <i>Monomorium antarticum</i> Smith | 26 | Common endemic ants. Not threatened. |
| | Hymenoptera | Sphecidae | <i>Species A</i> | 13 | Native hunting wasp. |
| | Lepidoptera | Crambidae | <i>Eudonia</i> sp. | 18 | Genus of native tussock moths. |

| Class | Order | Family | Genus species | Collection site | Taxonomic and Conservation status* |
|--------------|--------------|------------------|---|-----------------------------|---|
| Insecta | Lepidoptera | Crambidae | <i>Orocrambus flexuosellus</i> Doubleday | 1 | Widespread and common. |
| | | Geometridae | <i>Aponotoreas insignis</i> Butler (was Notoreas) | 30 | Alpine tussock orange. Day-flying moth, common in snowgrass 900-1500m. Not threatened. |
| | | Geometridae | <i>Asaphodes declarata</i> Prout | 10,27,30 | Native ‘striped carpet’ moth. Day flying, caterpillars feed on Ranunculus. Type specimen ex. Ben Lomond, Otago. Not threatened. |
| | | Geometridae | <i>Dasyuris anceps</i> Butler | 30 | Greater orange underwing. Caterpillars feed on Aciphylla and Gingidia. Not threatened. |
| | | Geometridae | <i>Notoreas chioneres</i> Prout | 27,30 | Endemic, type specimen ex. Old Man Range, CO. Caterpillars may feed on Pimelea. Not threatened. |
| | | Geometridae | <i>Paranotoreas brephosata</i> Walker | 26,30 | Striped orange underwing. Eastern South Island endemic. Not threatened. |
| | | Lycaenidae | <i>Lycaena salustius</i> F. | 5,9,11,15,18, | Widespread and common. |
| | | Lycaenidae | <i>Zizina otis oxleyi</i> Felder | 8,9,13,20,21 | Widespread and common. |
| | Lepidoptera | Noctuidae | <i>Graphania rubescens</i> Butler | 25 | Common cutworm moth. Not threatened. |
| | | Nymphalidae | <i>Argyrophenga antipodum</i> Doubleday | 3,9,10,5,27,30 | Common and widespread. Endemic tussock butterflies Not threatened. |
| Insecta | Odonata | Coenagrionidae | <i>Xanthocnemis zealandica</i> McLachlan | 15,22 | Common red damselfly. Not threatened. |
| | Odonata | Petaluridae | <i>Uropetala chiltoni</i> Tillyard | 7,10,27 | Giant mountain dragonfly. Endemic, not threatened. |
| | Orthoptera | Acrididae | <i>Phaulacridium marginale</i> Walker | 12,13,15,20,21 | Common and widespread small, native grasshoppers. |
| | | Acrididae | <i>Sigaus australis</i> Hutton | 1,7,8,13,25,26,30 | Common South Island alpine grasshopper. Not threatened. |
| | | Anostostomatidae | <i>Hemideina maori</i> Pictet & Saussure | 6 | Endemic mountain stone weta. Not threatened, however these weta require undisturbed sub-alpine, stone-pavement habitats. |
| | | Gryllidae | <i>Bobilla</i> sp. | Throughout lower elevations | Common and widespread field crickets. |
| | Plecoptera | Tettigonidae | <i>Conocephalus bilineatus</i> Erichson | 17,19 | Katydid/field grasshoppers. Native (also occur in Australia). |
| | | Austroperlidae | <i>Austroperla cyrene</i> Newman | 10 | Native black stone fly. Not threatened. |

APPENDIX FOUR Lauder Pastoral Lease Lizard Sightings January 2006.

Records include actual sightings only, not other signs of presence such as sloughs or scats.

“Site” locations of rare and endangered herpetofauna are recorded in the original report. Herpetofauna of this nature is at risk of illegal activities including damage and removal through unlawful interference and disturbance. Accordingly, information regarding the locations of any such herpetofauna has been deleted from this version of the report. The Department of Conservation has put in place mechanisms to ensure that such information can be realeased for genuine scientific and research purposes. Please contact the Department of Conservation directly to determine whether the information can be realeased.