

22.6.74

Waikare Estuary - South Bank, as far upstream as Otaihangā. (Exotics labelled \*)

1. Sand flat separating river mouth estuary from sea. ± 20% silt  
Desmos. sp. \*  
Spin. hirs. \*  
Scirp. nod.  
Carex pum.

2. Salt Marsh: Variable communities, according to under level, silt-sand proportions etc.

Scirp. cern  
S. nod  
S. amer  
S. lac  
S. caud.  
Carex pum.  
Leptoc. sim.  
Trig. str.  
Junc. marit.  
Cot. coron \*  
Ap. aust.  
Sph. mic. Incht. |  
Cass. lept | seedlings |  
Cop. rep. (4%)  
Atrip. str.  
Sam. rep.  
Seil. rad.  
Ol. sol.  
Plag. div.

? Chenop.  
Plantago cor. \*  
Spartina townsendii \*  
Hybrid from S. maritima (UK) and S. ? (USA)  
Coronop. didymus \*  
Ranunculus \*  
? ? ?

3. Dunes - fixed; mainly in lupin, Matraem

Verbascum \*  
Poa \*  
Lol. pum.  
Dactylo. glom.  
Bromus unid. \*  
Fest. arund. \*  
Bum. aren \*  
Solanum \*  
Plantago cor. \*  
Lycium frut. \*  
Rubus frut. \*  
Erig. canad. \*  
Vicia sativa \*  
Achill. Mill. \*  
Raphanistrac. \*  
Ulex europ. \*  
Rumex \*  
Geran. mille \*  
Climbing Smecta ??

\* Lupinus arb.  
\* Rumex acet.  
\* Junc. art.  
\* J. but. vert. d  
\* Leontodon arborea  
(tree willow)  
\* Conium maculatum (monard)  
\* Vinca major  
\* Populus

4. Two lagoons, one open, other Typha filled.

\* Junc. eff.  
Lemna minor  
Typha orient. \*  
Cyp. ust.  
Eleochar. acuta  
Ranunc. (riv. ??)

Scirp. lac.  
Phorm. ten.  
\* Populus "Lambonly"  
\* Salix fragilis (black willow)  
\* Ranunculus repens

Otaihangā: River bank and around ox-bow.

\* Agrop. repens.  
\* Cot. coron  
\* Plant. cor.  
\* Ammoph. aren.  
Cyp. ust  
Phorm. ten.  
\* Conium. mac.  
\* Fumaria  
Ol. sol.  
Plag. div.  
Sam. rep.  
? Crepis  
Seil. rad.  
Fest. arund.  
Ulex eur.  
\* Plant. major  
\* Lupinus arb  
\* Bromus unid.  
\* Gal. aparine  
Mueh.  
Leptoc. sim.  
Apium aust.  
Carex flag.  
\* Ranunculus  
Sceleratus  
\* Phytolacca oct.  
\* Trig. rep.  
Scirp. cern  
S. nod.  
Junc. pall.  
J. saroph.  
\* Sen. mikan.  
Junc. marit. var. aust  
Trig. str.  
Lob. anc.  
Cotula dio. var. monarda (Amey)  
\* Cardata  
Carex litorea  
Scaevola nitens.