

HE WAI KAWAWE ORANGA

Pangarau Aromatawai 1.2

(1)(2)

TE AWA O ŌPĀWAHO

Heathcote River

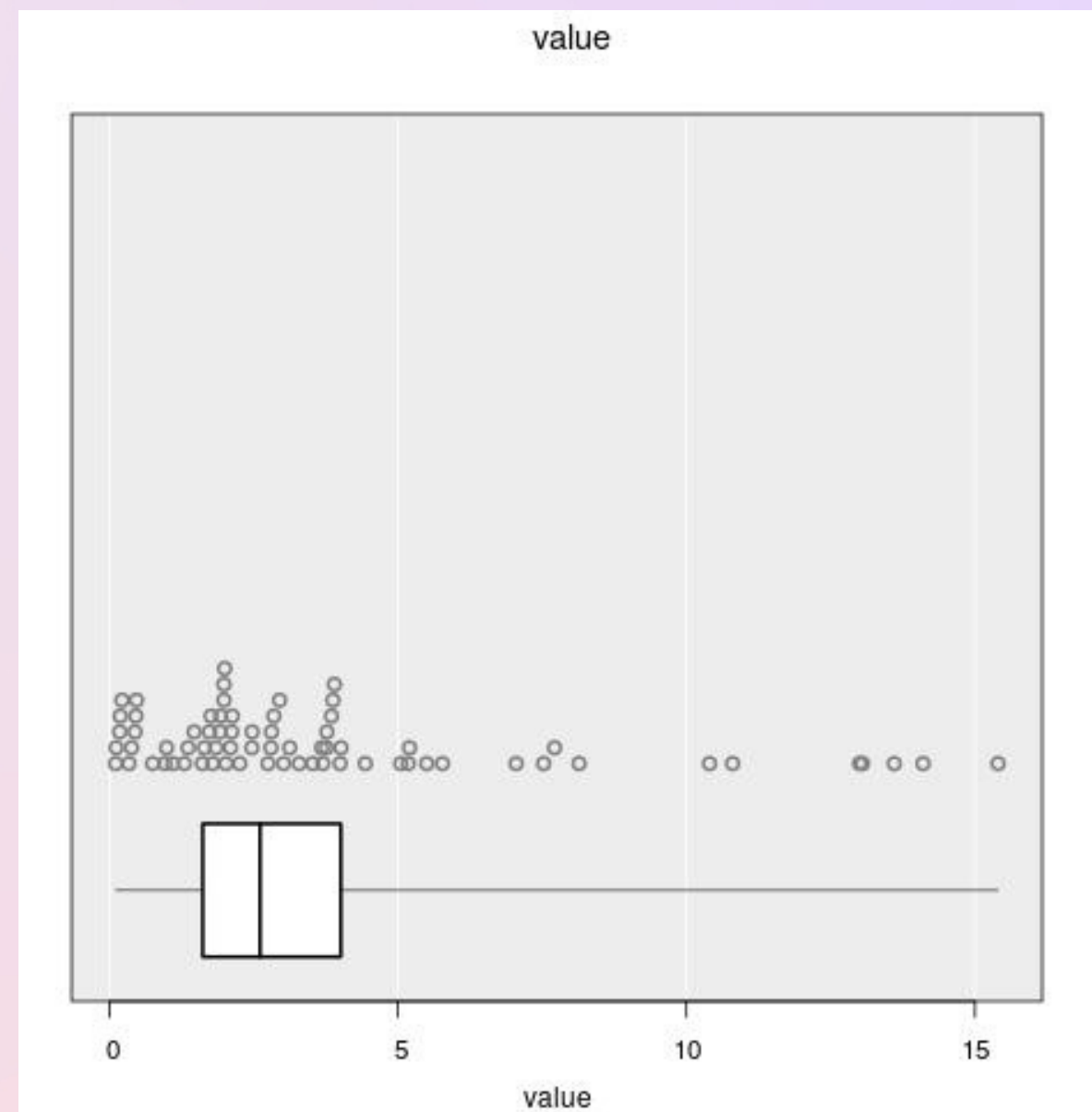
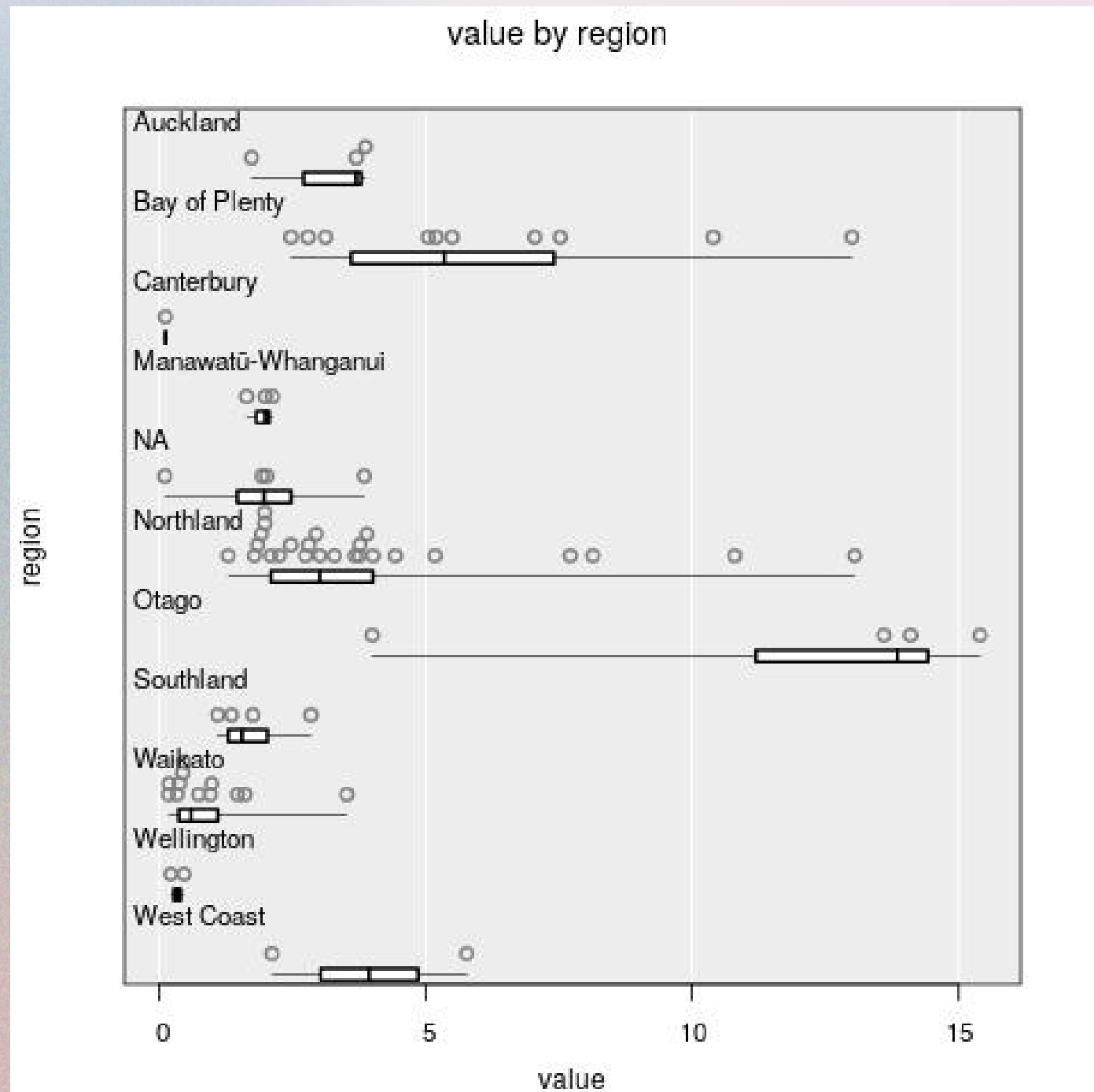
Ko Ōpāwaho te ingoa māori o te awa o Heathcote, i tapaina te ingoa o Ōpāwaho nā tana wahi (he outpost.) Ko Ōpāwaho tētahi wahi whakatau, tētahi wahi noho, tētahi wahi haumaruru mō ngā tangata nō Ngai Tahu e nuku ana mai i a Kaiapoi ki Horomaka.

He aha te take me whakarauora i te awa o Ōpāwaho?

Me whakarauora i te awa nā te mea he taonga, ā, kua paruparu katoa, e mau i haere ana ngā ika i roto rā, i ngā rā o mua he wahi mahinga kai i tipu ai ngā waikoura, wātakirihi, tuna hoki. Inaianei nā te paruparu kua ngaro katoa ēra mahinga kai nā reira me whakarauora mātou i te awa kia hoki mai ēā mahinga kai mā tātou.

CLARITY (1)

CLAR (PŪAHOAHO)

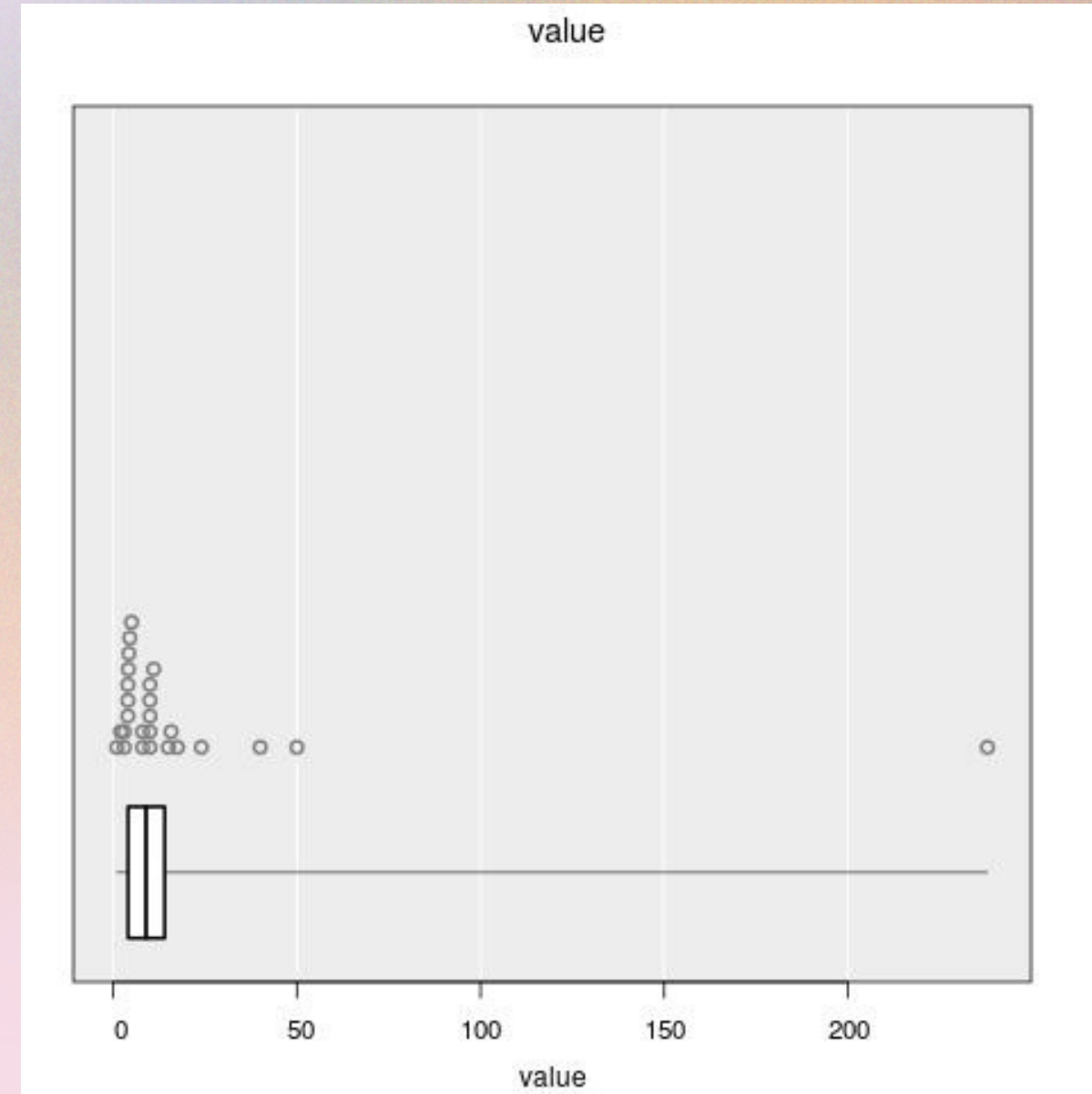
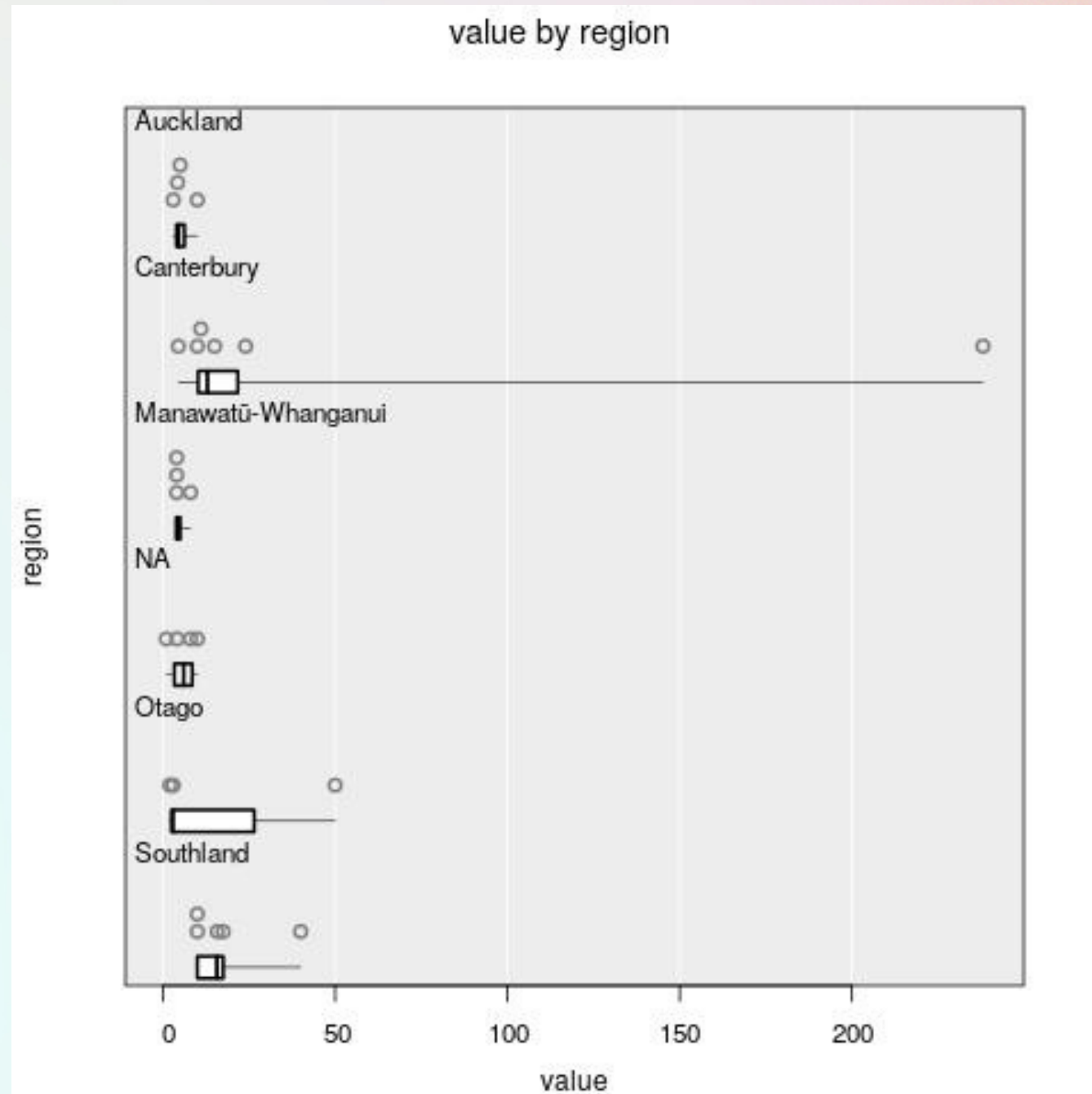


- E taea ana te kite ko Ōtakou te rohe pai rawa mō te pūahoaho, kua 11-14 mita tā rātou kite ki rō i ngā roto ki reira. Engari iti noa tā rātou matauranga mo te hauwha runga, ā, kua nui tā rātou mohio mo te hauwha raro.
- Kore take rawa te pūahoaho ki Waitaha nei, 1/2 mita noa te roa o te kite ki rō i te nuinga o ngā roto ki konei.
- I te nuinga o ngā rohe 2-4 mita te roa o te kite ki rō i ngā roto, ruarua noa iho ngā rohe kua pāhi i te 10-15 mita.

(1)(2)

E. COLI

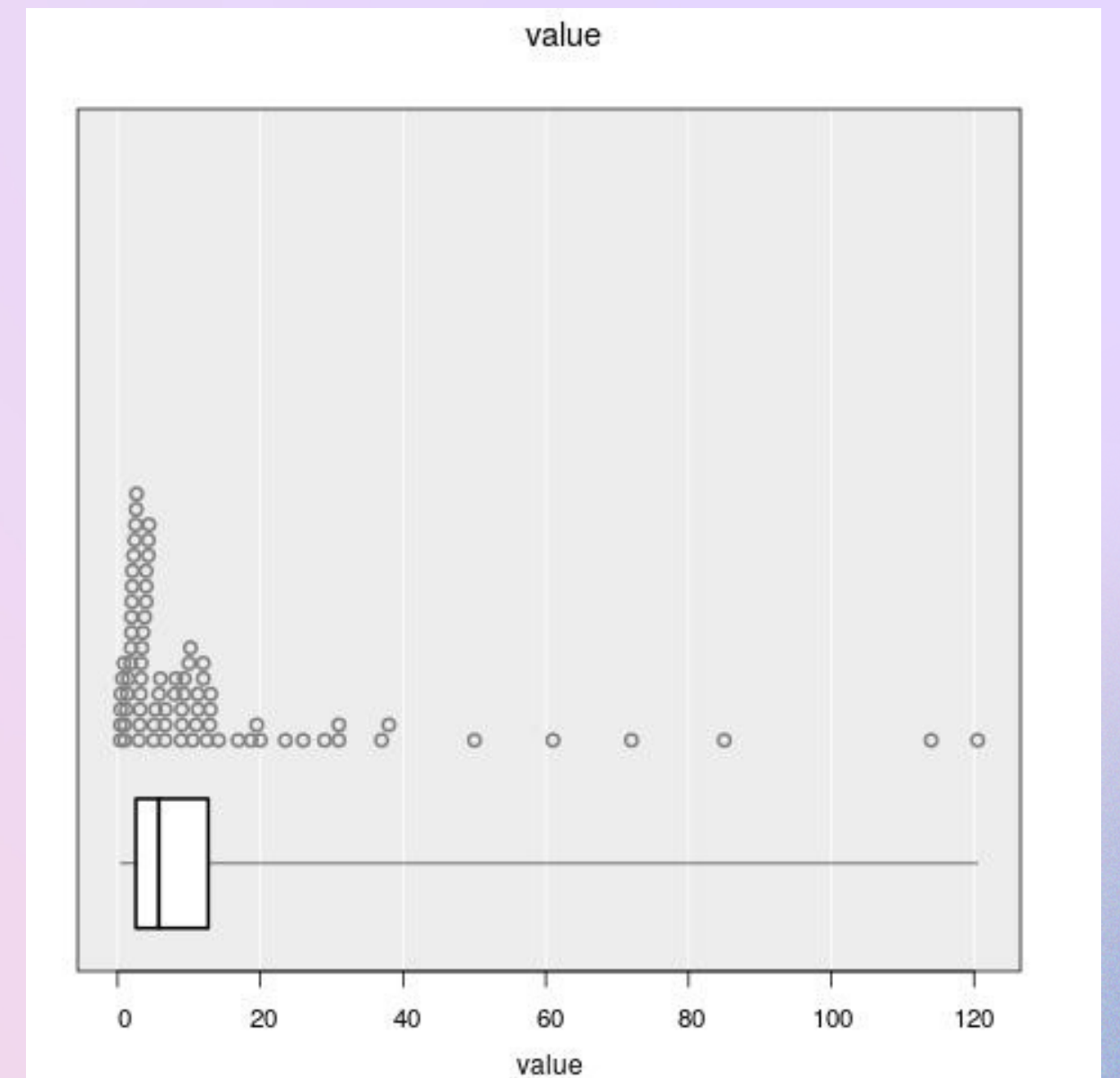
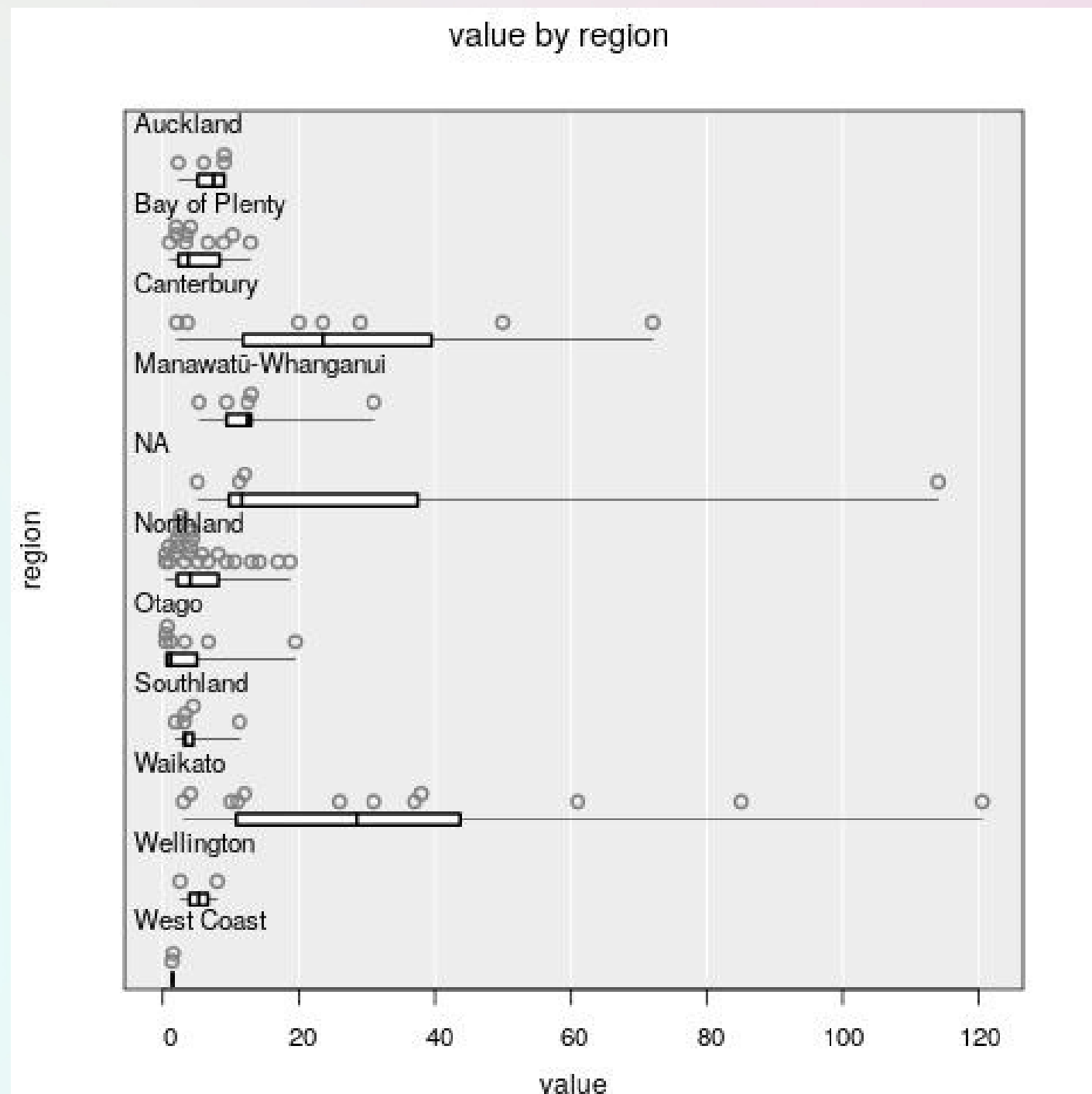
ECOLI



- E taea ana te kite ko Murihiku tētahi o ngā wahi pai rawa mō te korenga o te E.coli, e ruarua noa a rātou roto, kore kau a rātou tau waenga nā te iti noa o te matauranga, engari tērā iti ka noho ki te hauwha raro.
- Ki Waitaha nei e kite ana kua paku noa ngā mātauranga o te hauwha raro, ahakoa te iti o te hauwha raro, kua maha ngā matauranga o te hauwha runga.
- I te nuinga o ngā rohe kua paku noa o te Ecoli nō reira he mea pai tērā.

CHLOROPHYLL-A

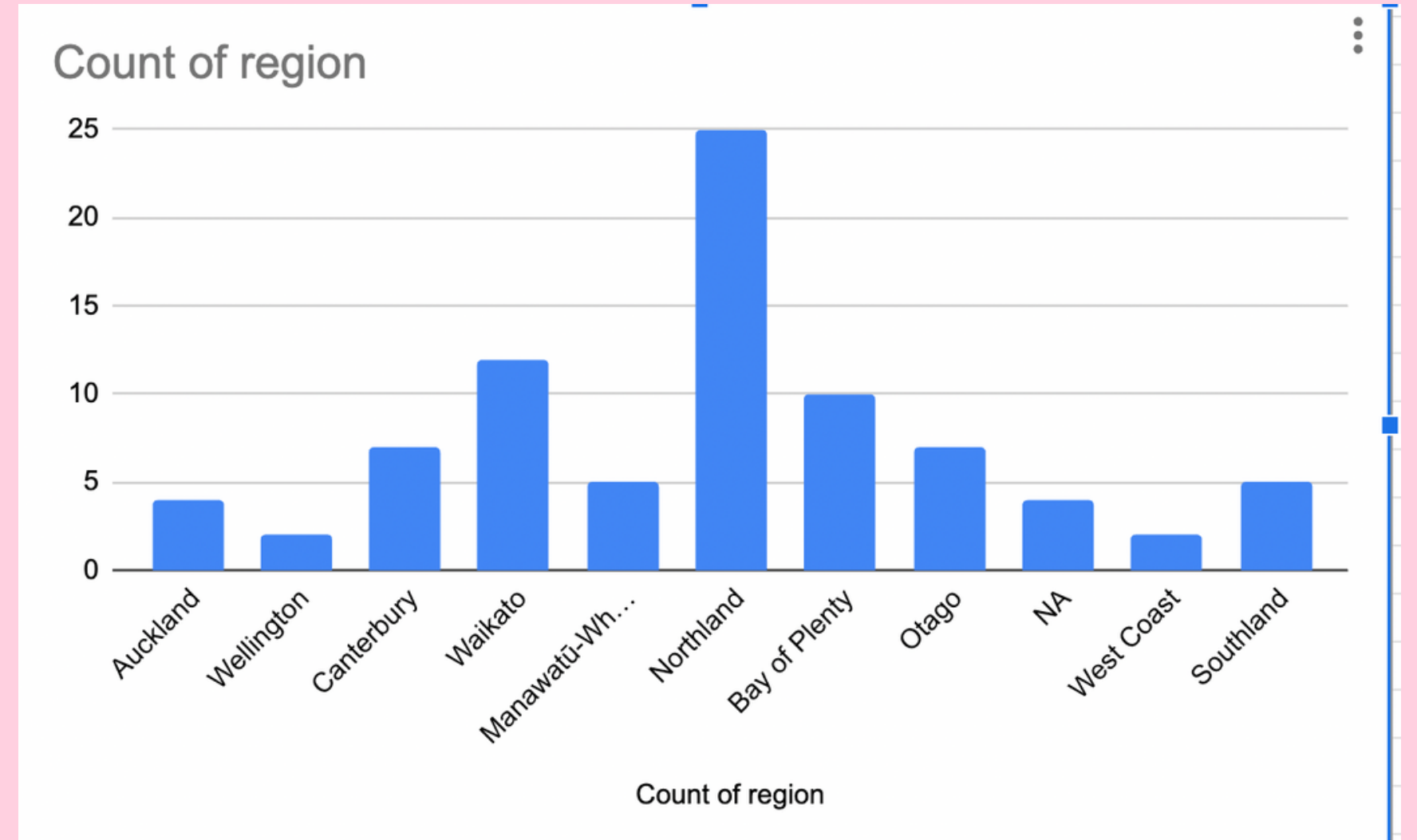
CHLA (KANOKĀRIKI)



- E taea ana te kite te maha hoki o te kanokāriki ki Waitaha nei, ā, ehara i te mea kua nunui te kanokāriki, kei waenga i te nui me te iti. Nō reira he nama paruhi.
- Ko Te Tai Hauauru, te rohe koretake mō te kanokāriki, kua papaku noa te kanokāriki ki reira, nō reira matemate haere a rātou tipu, mahinga kai, ki rō i ngā roto.
- Ki Waitaha he nui ake te matauranga o te hauwha runga i te hauwha raro.

MAHI PANGARAU

- Tamaki Makaurau - 4
- Wairariki - 10
- Waitaha - 7
- Manawatu/Whanganui - 5
- Te Tai Tokerau - 25
- Ōtākou - 7
- Murihiku - 5
- Waikato - 12
- Pōneke - 2
- Te Tai Hauāuru - 2



$P(\text{he aha te tuponotanga ka kowhiritia a Waitaha mai i Te Waipounamu}) = 7/21 = 3\%$

$P(\text{he aha te tuponotanga ka kowhiritia a Te Tai Tokerau mai i te motu katoa}) = 25/83 = 30\%$

$P(\text{he aha te tuponotanga ka kowhiri i ngā roto o Te Ika a Maui, i te motu katoa}) = 58/83 = 70\%$

E kite ana e maha ngā rerekētanga o ngā roto o ia rohe, ā, ko Waitaha tētahi o ngā rohe koretake rawa mō te painga o te ora o ngā roto.

Nā reira nā te koretake o ngā roto ki Waitaha koira te take me whiwhi putea ai tātou kia whakarauora ngā roto, kia pai te rere o te wai, kia ora tika ai ngā tipu, kia ora hoki ngā mahinga kai kī rō i ngā roto mā tatou e kai ai.