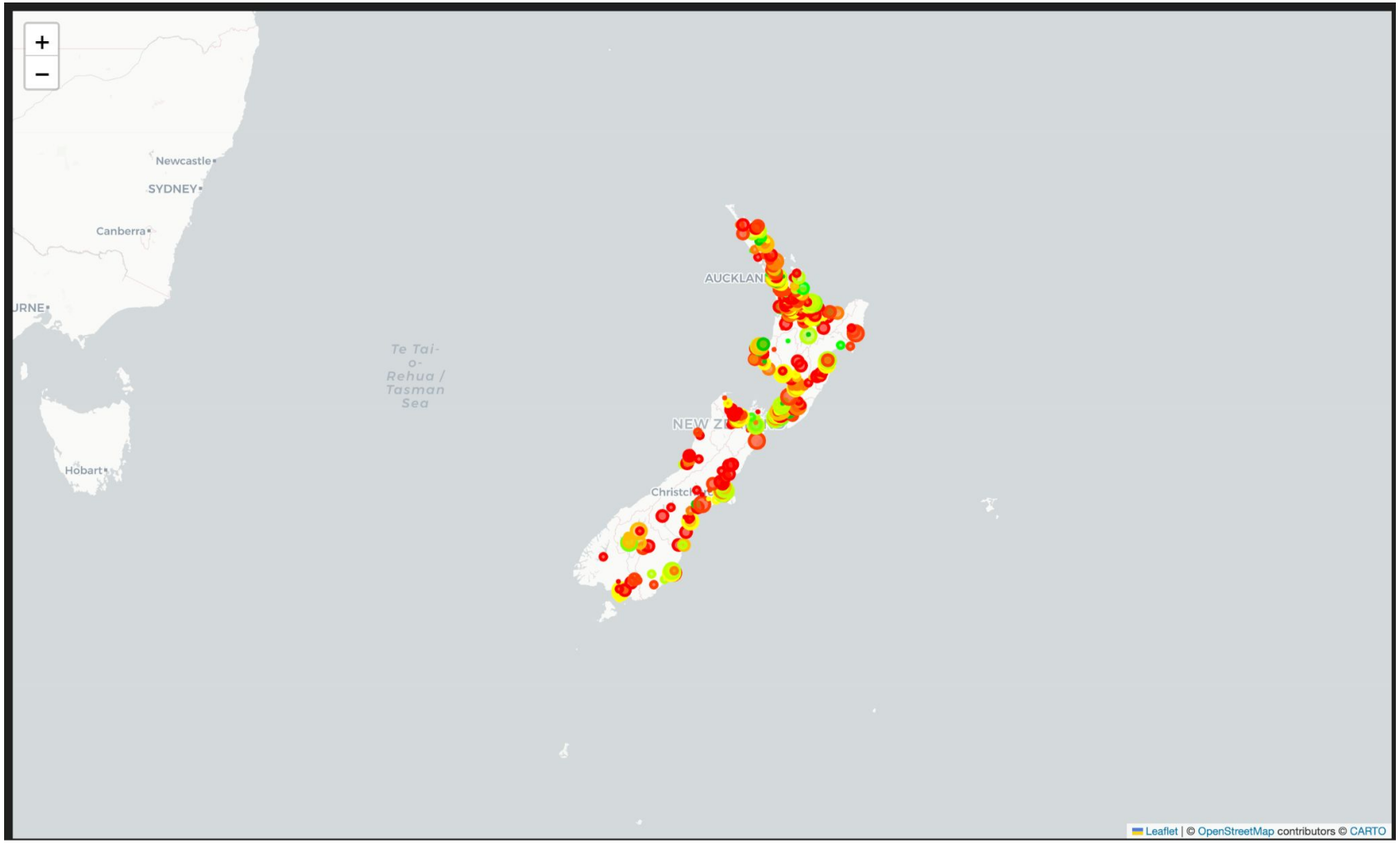
MLab Insights from NZ and US

June - October 2025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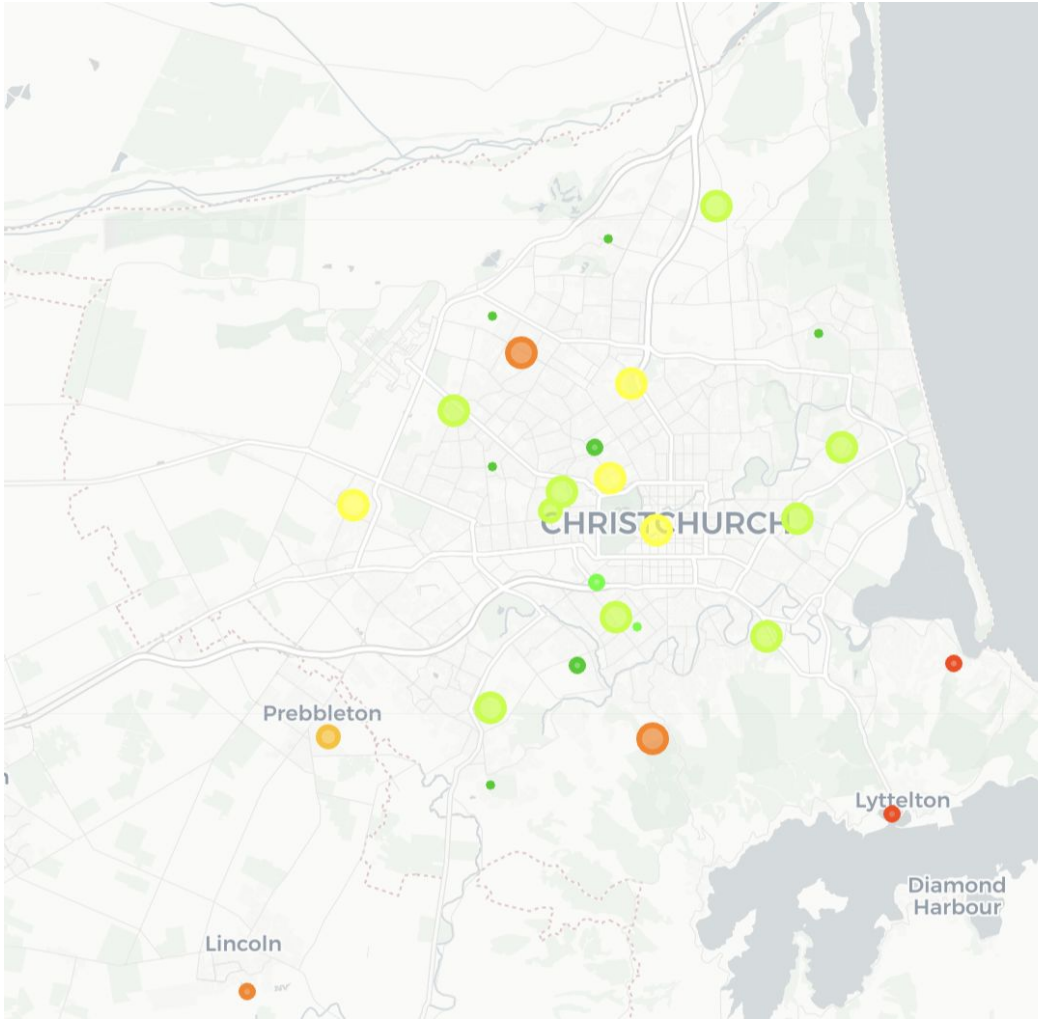
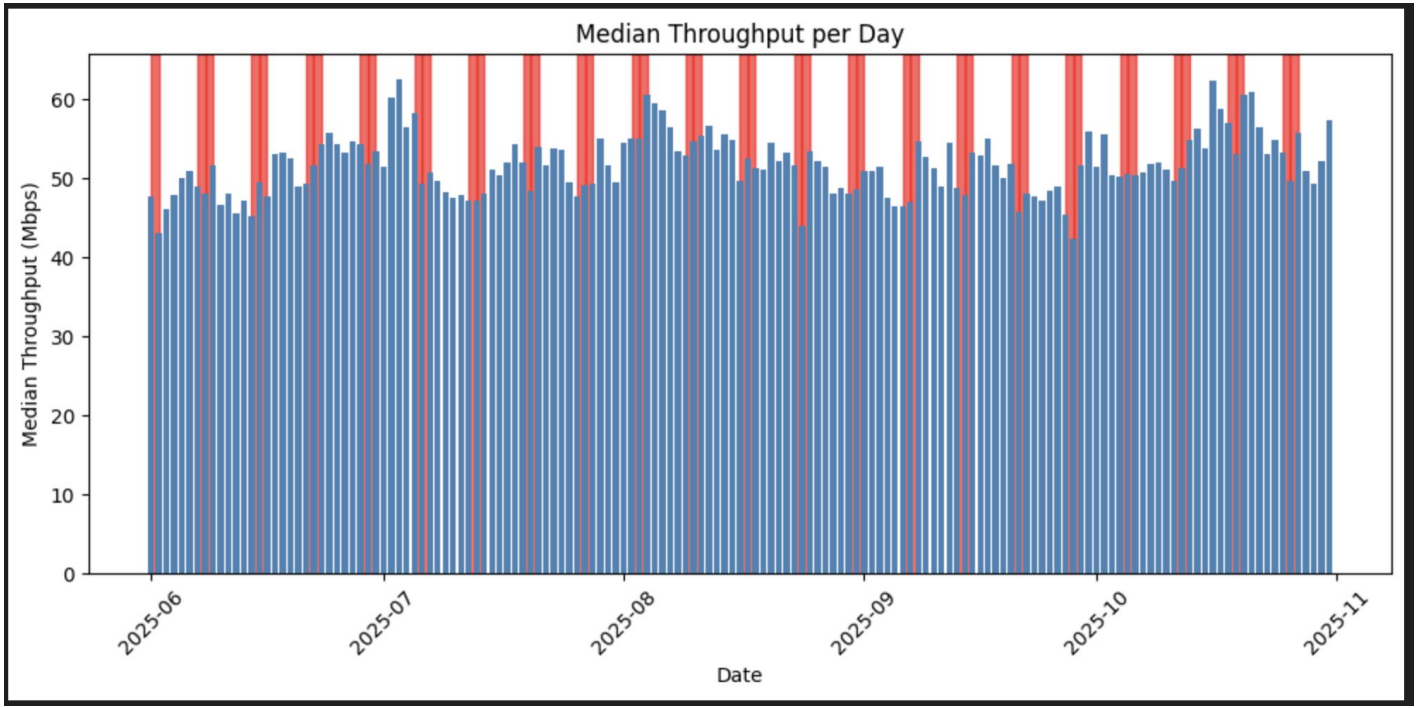
Newcastle
SYDNEY
Canberra
URNE
Hobart
Te Tai-o-Rehua / Tasman Sea
AUCKLAN
NEW ZE
Christch
Leaflet | © OpenStreetMap contributors © CARTO


CHRISTCHURCH
Prebbleton
Lyttelton
Diamond Harbour
Lincoln

Does throughput vary by weekends vs. weekdays?



Best Regions for Internet Speeds

Median Speeds by Region

	postal_region	median	count
8	Queenstown/Wanaka	79.230668	10487
16	Wellington area	79.157653	357832
12	Tauranga / Bay of Plenty	78.237656	74844
2	Christchurch & surrounds	77.697638	243709
3	Dunedin	77.078684	43142
9	Rotorua	76.937658	9409
11	Taranaki / Manawatū / Wairarapa north	71.515534	71475
7	Otago & Southland	71.242312	18163
10	South Auckland & Franklin	68.173565	5486
4	Gisborne / Hawke's Bay	64.271556	38075

Christchurch & Surrounds – Top ISPs by Median Speed (Mbps)

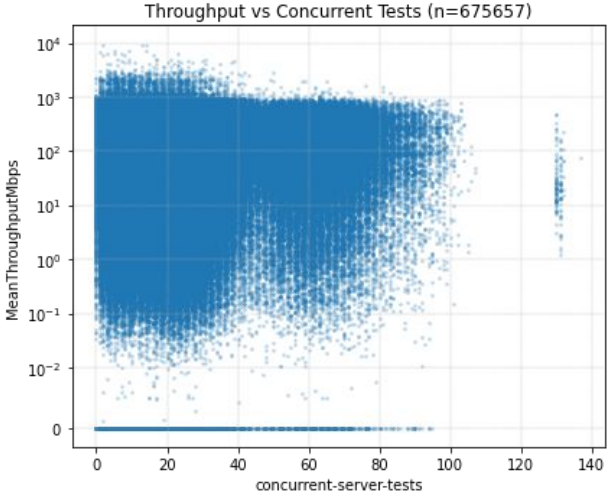
	ASName	median	count
0	Agricultural Research CRI, New Zealand	622.174113	23
16	ICONZ, Internet Service Provider	234.024433	143
18	Internet access for Datacom Systems Auckland	212.465121	47
7	Christchurch Polytechnic Institute	206.571074	255
46	Voyager Internet Ltd.	175.212031	4976

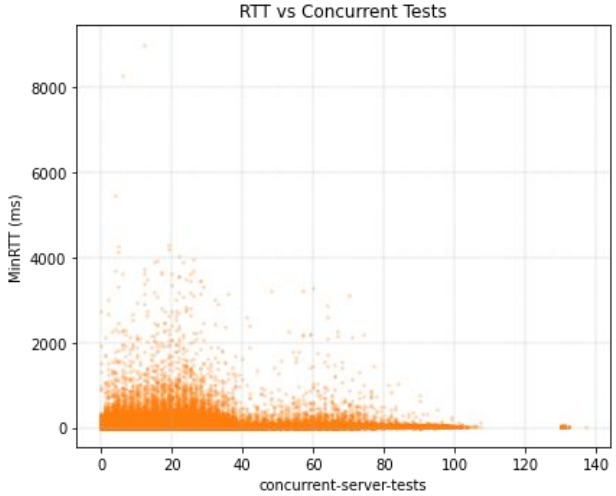
United States

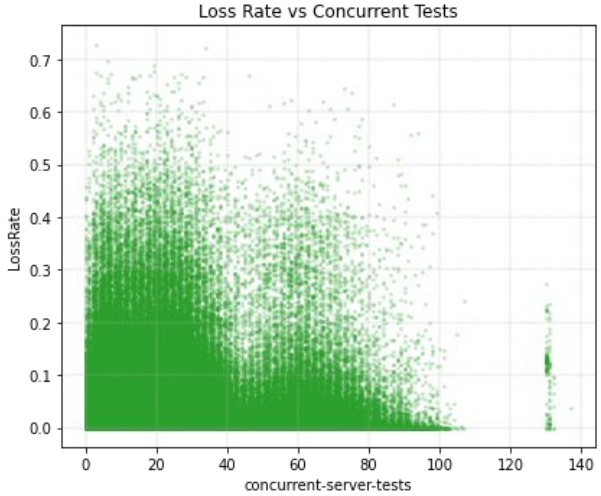
Summary

- Where should more resources be provisioned?
- Look at USA which has significantly more tests
- Consider the number of concurrent tests (any other test started in the same cluster within 30 seconds before or after)
- This analysis is a very small sample over a single day

NORTH
AMERICA
chs02-mlab1 — concurrent: 107.0 — servers: 1


Throughput vs Concurrent Tests (n=675657)
MeanThroughputMbps
concurrent-server-tests


RTT vs Concurrent Tests
MinRTT (ms)
concurrent-server-tests


Loss Rate vs Concurrent Tests
LossRate
concurrent-server-tests