Analyzing Stolen Vehicle Data

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➢ On which year most of the vehicle has been stolen?

High Theft Year is 2022

Year	Vehicle Stolen
2021	1668
2022	2885
Grand Total	4553

➢ Which region has least report of motor vehicle theft?

Southland – 26 Vehicles

Region vs Vehicles Stolen
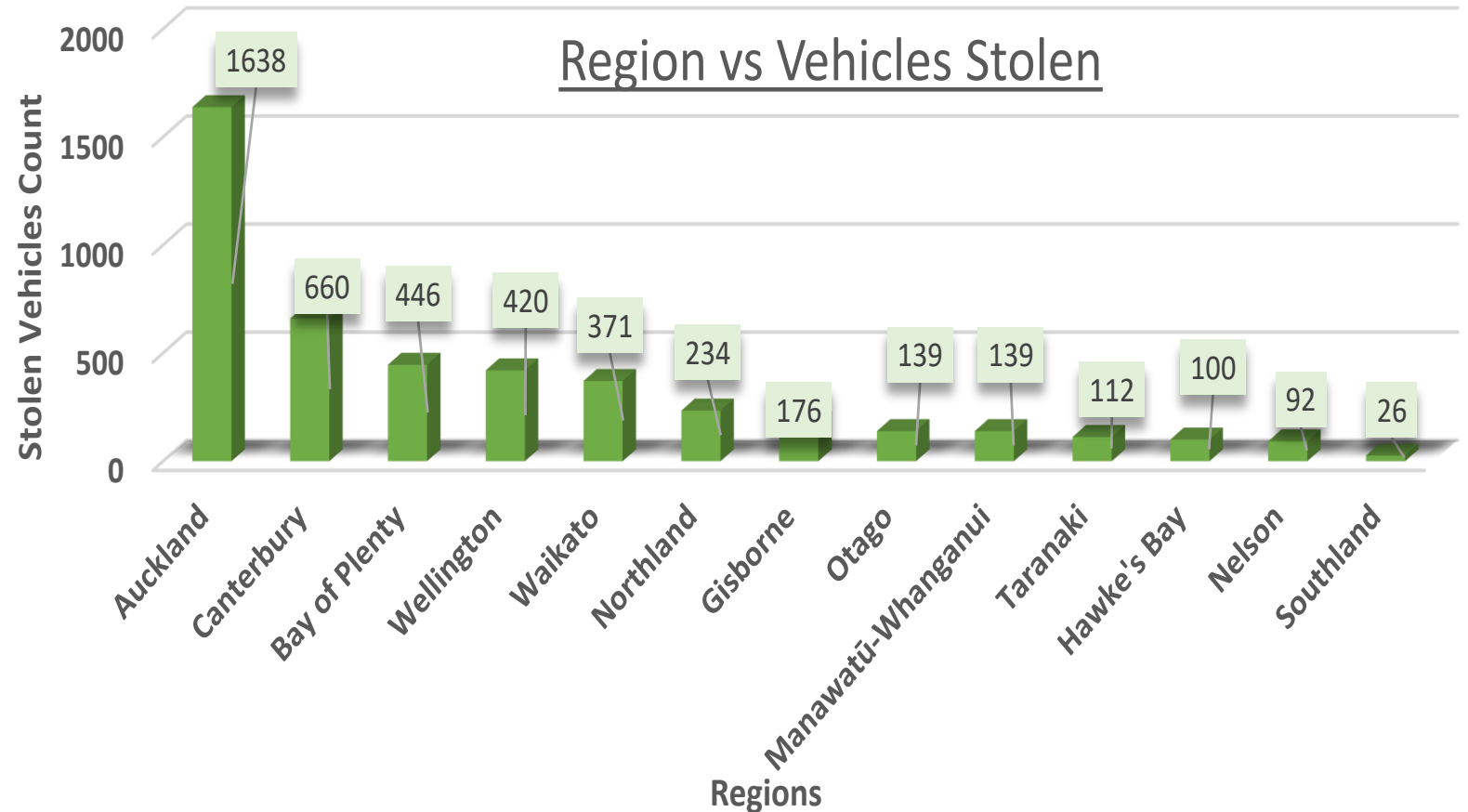
What is the average motor vehicle theft reporting every year?

Average theft every year :

2277

Theft Trend over the Years

➢ Which maker's vehicles has mostly got stolen?

Toyota – 716 Vehicles Stolen

Makers of Stolen Vehicles
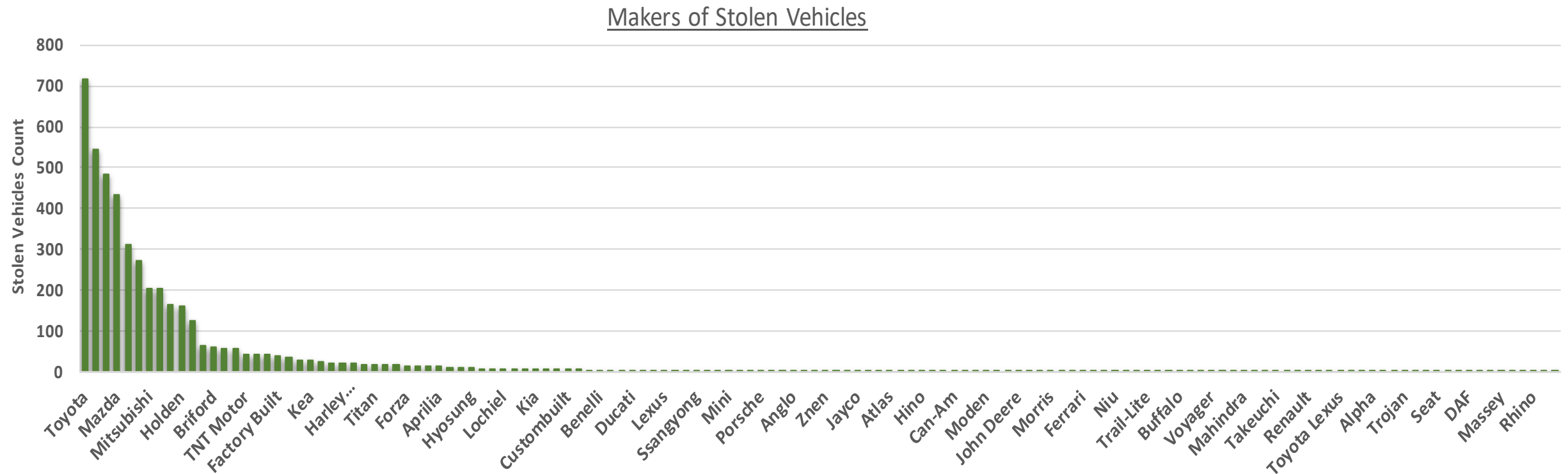
➢ What is the area for each of the region in New Zealand?

Regions ▾	Area (km2)
Auckland	4940.98
Bay of Plenty	12072.92
Canterbury	44497.28
Gisborne	8389.69
Hawke's Bay	14140.87
Manawatū-Whanganui	22220.31
Marlborough	10506.07
Nelson	421.99
Northland	12507.76
Otago	31178.71
Southland	31219.51
Taranaki	7253.56
Tasman	9622.95
Waikato	23897.67
Wellington	8049.47
West Coast	23191.49
Grand Total	264111.2316

➢ # What is the covariance between population and density?

Covariance between Population & Density : 28019264.06

Covariance Table -

	population	*density*
population	1.61E+11	
density	28019264.06	6968.96

➢ What is the total population of New Zealand?

Total Population :51,23,200

Region	population
Auckland	1695200
Bay of Plenty	347700
Canterbury	655000
Gisborne	52100
Hawke's Bay	182700
Manawatū-Whanga	258200
Marlborough	51900
Nelson	54500
Northland	201500
Otago	246000
Southland	102400
Taranaki	127300
Tasman	58700
Waikato	513800
Wellington	543500
West Coast	32700
Grand Total	5123200

➢ Among the vehicles which got stolen ,what percent of vehicles were of standard type?

Standard Type - 96% Stolen

Stolen Vehicles Make Type

190

4348

■ Luxury

■ Standard
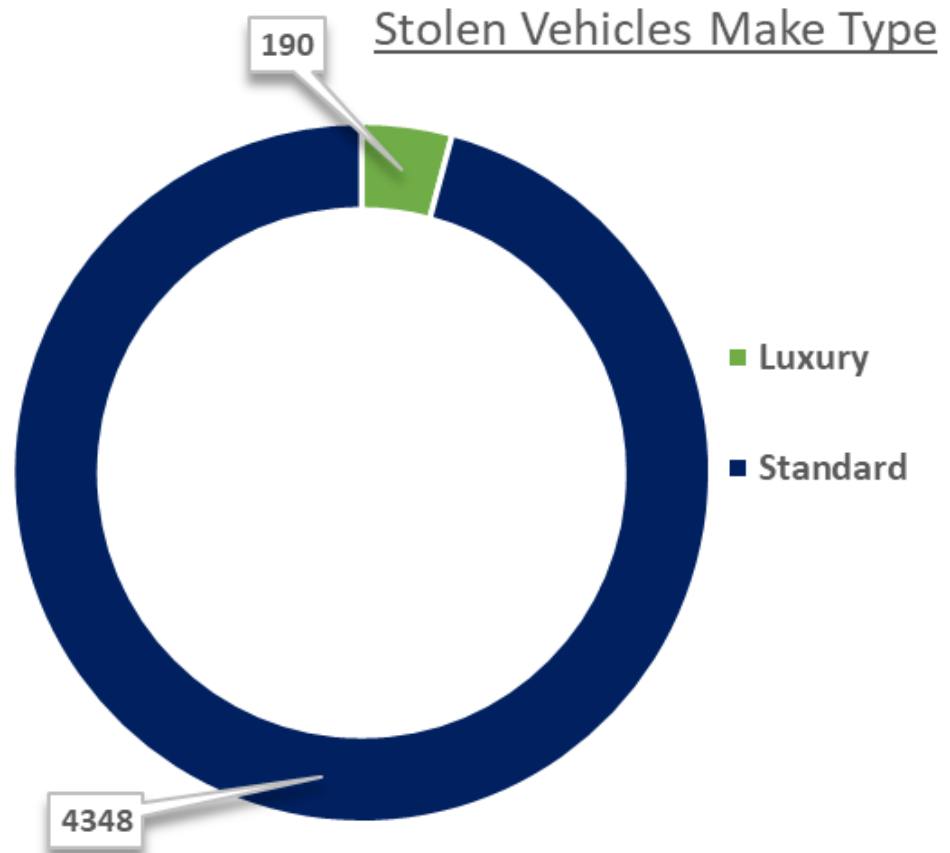
➢ Which colour of vehicle has got mostly stolen ?

Silver Colour – 1272 Stolen

Colour	Count of Vehicles Stolen
Silver	1272
White	934
Black	589
Blue	512
Red	390
Grey	378
Green	224
Gold	77
Brown	49
Yellow	39
Orange	35
Purple	26
No Colour Data	15
Cream	9
Pink	4
Grand Total	4553

➢ How many Boat Trailer of silver colour has got stolen?

Boat Trailer of Silver Colour
-67 Stolen

vehicle_type	color	Stolen Count
⊟ Boat Trailer		105
	Black	3
	Brown	1
	Grey	29
	Silver	67
	White	5

➢ CONCLUSION:

- Relation between High Population & More Theft is Very High.

	Population	Count of vehicles Stolen
Population	1	
Count of vehicles Stolen	0.98	1

➢ CONCLUSION:

- Relation between High Population Density & More Theft is High.

	Population Density	Count of Vehicle Stolen
Population Density	1	
Count of Vehicle Stolen	0.84	1

➤ CONCLUSION:

- Relation between the area of the region & theft trend is very weak.

	Area(km2)	Count of Vehicles Stolen
Area(km2)	1	
Count of Vehicles Stolen	-0.11	1

THANK YOU