**Model 1: Lockdown compared to same period in previous years**

Explores the Number of illegal activity sites recorded within the period of lockdown (1st April -> 31st July) across the four years of available data (2017:2020)

A picture containing photo, different, table, computer

Description automatically generated

lm(NumberSites ~ Year, data=Lockdown)

Summary Table

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Estimate | Std. Error | t value | Pr(>|t|) |
| Intercept | 562.525 | 2125.339 | 0.265 | 0.795 |
| Year | -0.275 | 1.053 | -0.261 | 0.798 |

No clear effect of Year, but note that 1) there was a linear trend down across the years 2017-2019; while 2020 shows a return to the 2017 levels, so not a simple linear relationship. Sample size fairly small (n=119) to be running this sort of analysis, limited power.

**Model 2: Variation across lockdown period**

Pearson correlation suggests that there is a linear increase in illegal activity sites (n=42) across 2020 lockdown (r=0.9, p=0.0056). Note that lockdown starts at the beginning of Month 4 (April); increase only visible in past two months, so a possible lag in effect from when lockdown started.

A close up of a map

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