

DAAR and ITHI Data Collection

- ⦿ Two primary sources:
 - Zone files from CZDS
 - Reputation data from DNS Reputation Providers
 - abuse.ch: malware
 - Anti-Phishing Working Group: phishing
 - Malware Patrol: botnet command and control, malware
 - PhishTank: phishing
 - Spamhaus: botnet command and control, malware, phishing, spam
 - SURBL: malware, phishing, spam
- ⦿ DAAR reports (currently) are "point in time" (last day of month)
- ⦿ ITHI time series are monthly averages

DAAR Time Series (from <https://www.icann.org/en/system/files/files/daar-monthly-report-31may20-en.pdf>)

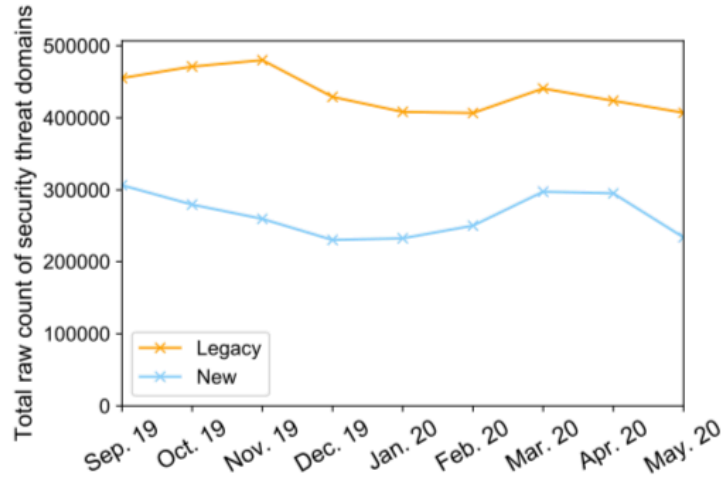


Figure 6: Total number of domains identified as security threats over time

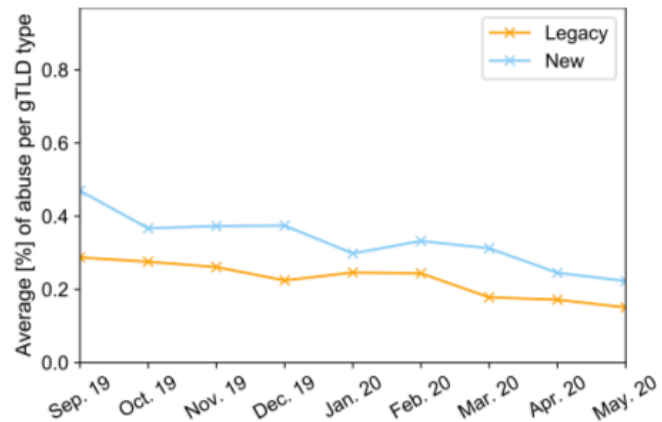


Figure 12: Percentage of abuse for different gTLD types over time

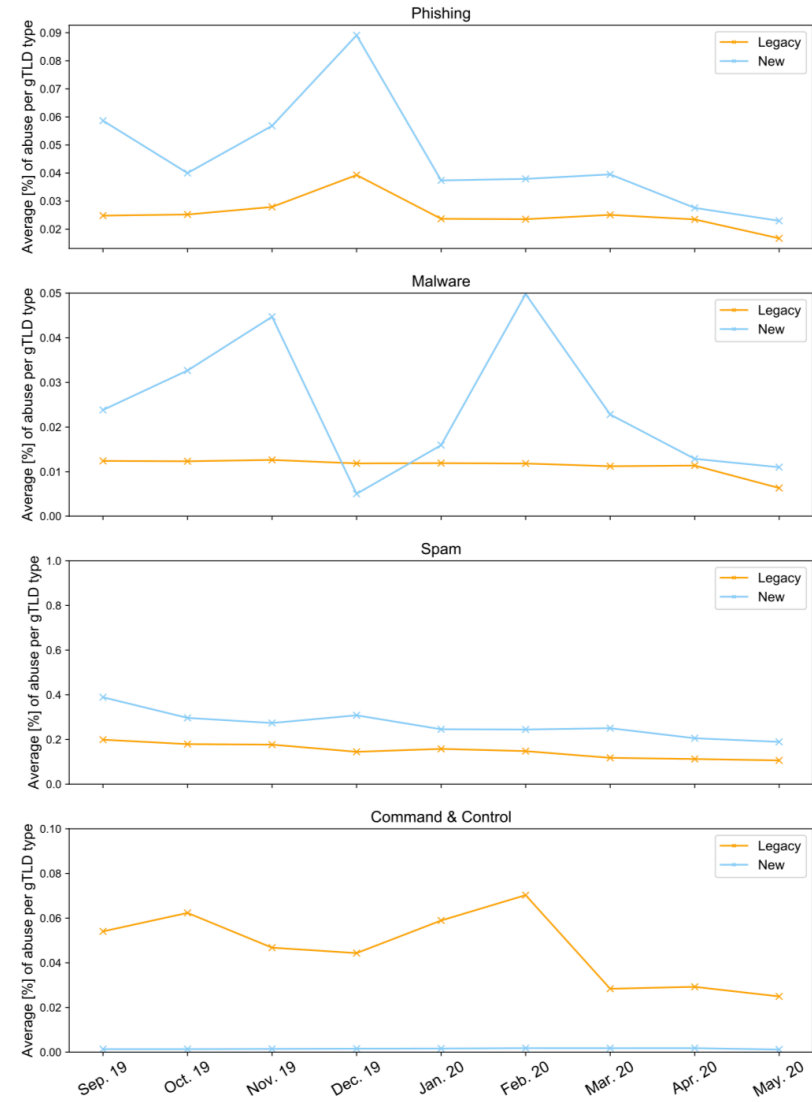


Figure 14: Average percentage of abuse in gTLDs across different threat types over time

DAAR Scatter Plots (from <https://www.icann.org/en/system/files/files/daar-monthly-report-31may20-en.pdf>)

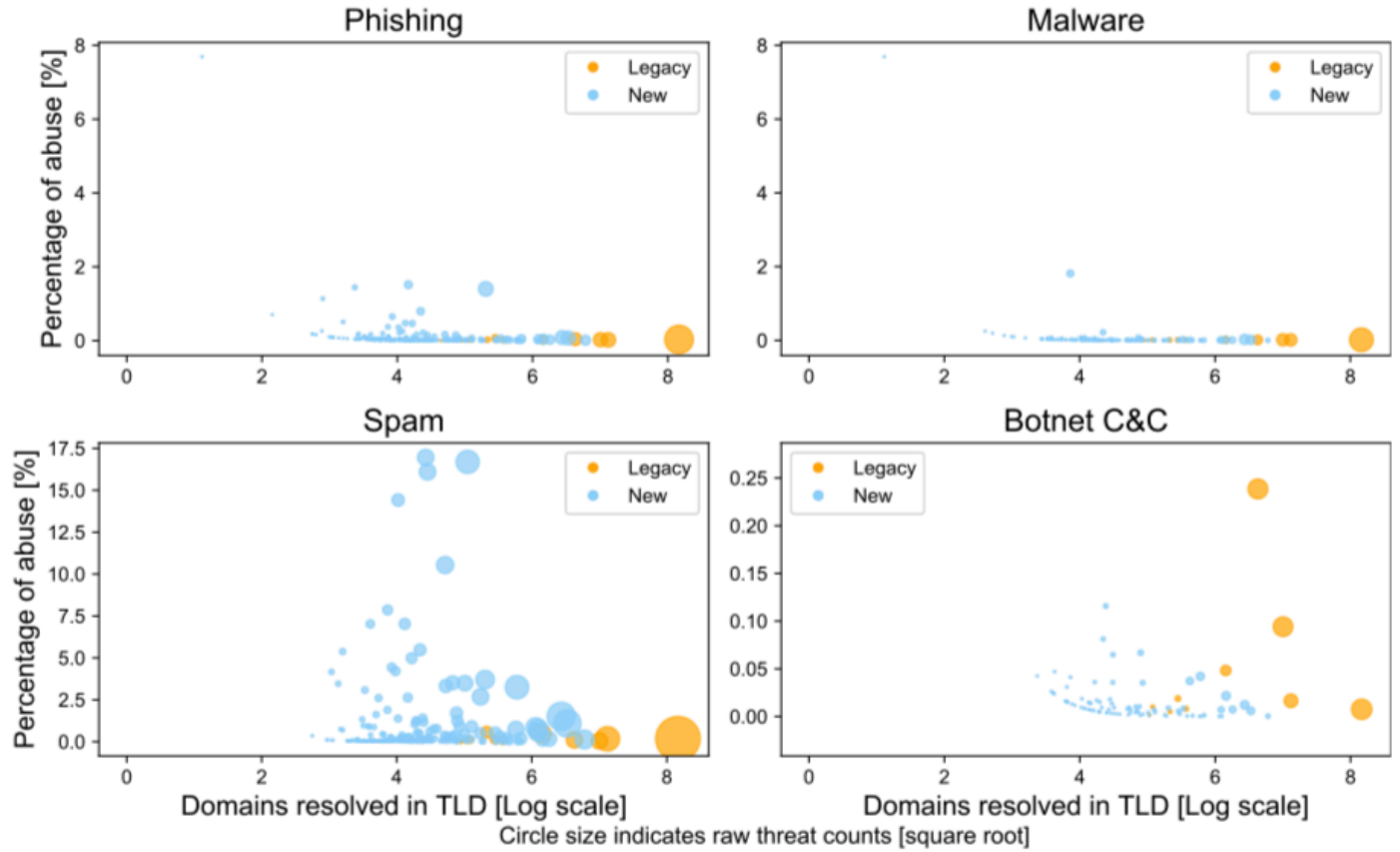
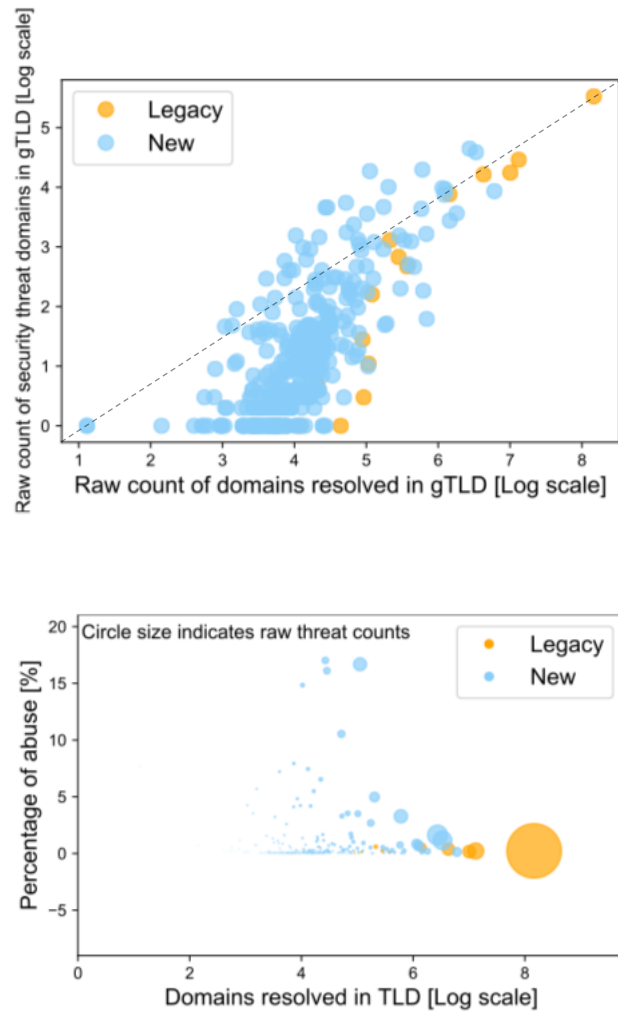


Figure 13: Percentage of abuse for domains identified as security threats vs. counts of resolved domains in gTLDs across different threat types

ITHI DNS Abuse (M2) Statistics (<https://ithi.research.icann.org/graph-m2.html>)

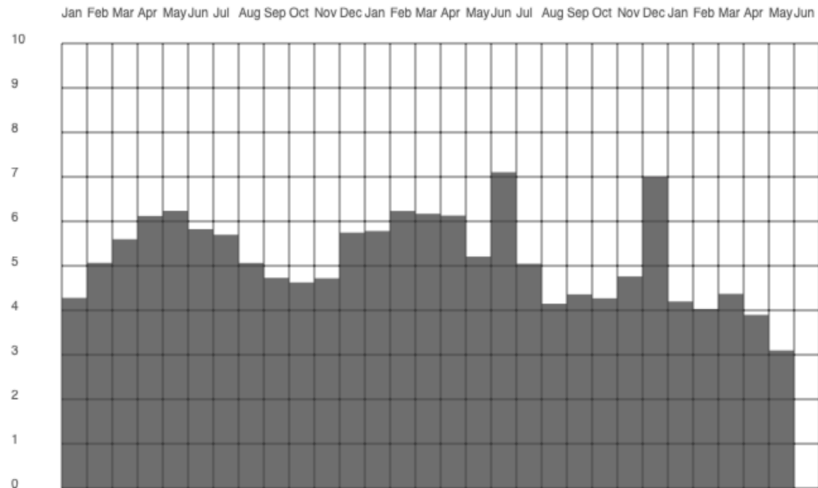
gTLD Abuse Rates	May 2020	High	3 Mo Avg	Low	TLDs accounting for 90% abuse
Phishing	0.031%	0.071%	0.041%	0.031%	7
Malware	0.013%	0.041%	0.014%	0.013%	4
Botnet	0.017%	0.040%	0.021%	0.004%	4
Spam	0.252%	1.127%	0.274%	0.243%	17

Notes:

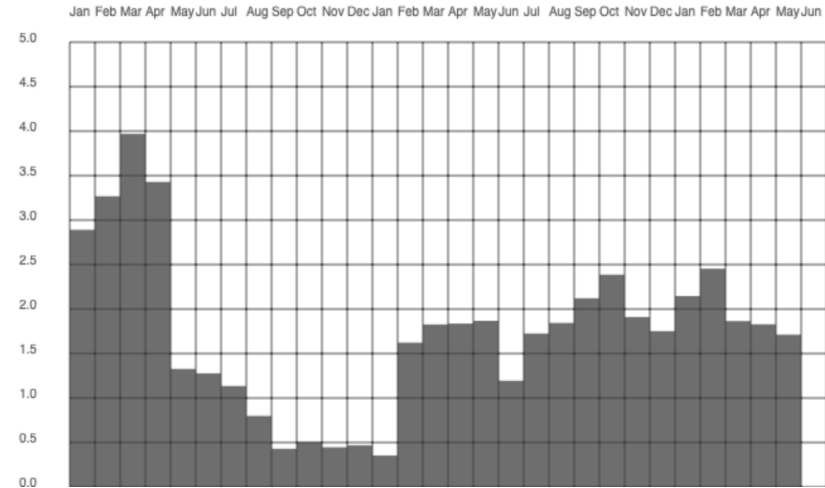
- Total across all gTLDs
- “*TLDs accounting for 90% abuse*” correlates strongly with size of gTLD

ITHI gTLD Abuse Time Series (from <https://ithi.research.icann.org/graph-m2.html>)

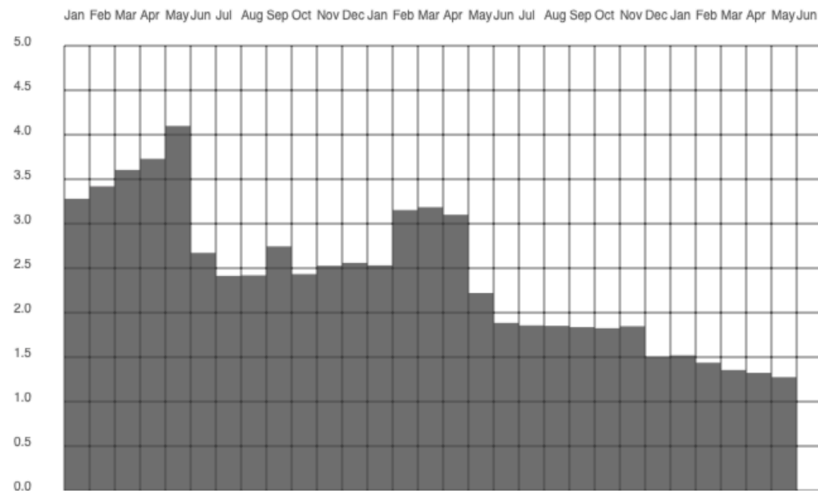
Phishing Domains per 10000



Botnet Domains per 10000



Malware Domains per 10000



Spam Domains per 10000

