

## Article

# Spatialities of Dog Theft: A Critical Perspective

Daniel Allen<sup>1\*</sup>, Adam Peacock<sup>2</sup> and Jamie Arathoon<sup>3</sup>

<sup>1</sup> School of Geography, Geology and The Environment, Keele University; [d.allen@keele.ac.uk](mailto:d.allen@keele.ac.uk)

<sup>2</sup> School of Geography, Geology and The Environment, Keele University; [a.j.peacock@keele.ac.uk](mailto:a.j.peacock@keele.ac.uk)

<sup>3</sup> School of Geographical and Earth Sciences, University of Glasgow; [j.arathoon.1@research.gla.ac.uk](mailto:j.arathoon.1@research.gla.ac.uk)

\*Correspondence: [d.allen@keele.ac.uk](mailto:d.allen@keele.ac.uk); Tel.: +44 1782 734961

**Simple Summary:** Dogs are considered property under UK law, while owners generally regard their canine companions as family. Reports that the number of stolen dogs in England and Wales rose from 1,788 in 2016 to 1,909 in 2017, led to public calls to change the law. Recognizing that a more robust analysis of dog theft crime statistics is required, we gathered dog theft data for 2015, 2016 and 2017 from 37 of 44 police forces. This paper examines how dog theft crime statistics are constructed; assesses the strengths and weaknesses of this data; and categorises, maps and measures dog theft changes temporally per police force in England and Wales. Our findings reveal there has been an increase in dog theft crimes, 1,294 in 2015, 1,525 in 2016 (+17.85%), and 1,678 in 2017 (+10.03%); and a decrease in court charges related to dog theft crimes, 62 (4.7%) in 2015, 48 (3.14%) in 2016, 37 (2.2%) in 2017. The actual number of dog theft crimes will be higher as seven forces could not supply useable data. We recommend a standardised approach to recording dog theft by all police forces in England and Wales, and a qualitative study to understand dog theft crime in different parts of the country.

**Abstract:** Dogs are considered property under UK law, while current discourses of pet ownership place canine companions as part of an extended family. This means sentences for those who steal dogs are not reflective of a dogs' sentience and agency, rather reflecting the same charges for those who steal a laptop or wallet. This is particularly problematic as dog theft is currently on the rise in England and Wales and led to public calls to change the law. Recognizing that a more robust analysis of dog theft crime statistics is required, we gathered dog theft data for 2015, 2016 and 2017 from 37 of 44 police forces through FOI requests. This paper uses this data to examine how dog theft crime statistics are constructed; assesses the strengths and weaknesses of this data; and categorises, maps and measures dog theft changes temporally per police force in England and Wales. Our findings reveal there has been an increase in dog theft crimes, 1,294 in 2015, 1,525 in 2016 (+17.85%), and 1,678 in 2017 (+10.03%); and a decrease in court charges related to dog theft crimes, 62 (4.7%) in 2015, 48 (3.14%) in 2016, 37 (2.2%) in 2017. There were police force inconsistencies in recording dog theft crime which meant some data was unusable or could not be accessed or analysed. There is a need for a qualitative study to understand dog theft crime in different areas, and standardised approach to recording the theft of a dog by all forces across England and Wales.

**Keywords:** dog theft; pet theft; dogs; pets, crime; animal geography; GIS;

## 1. Introduction

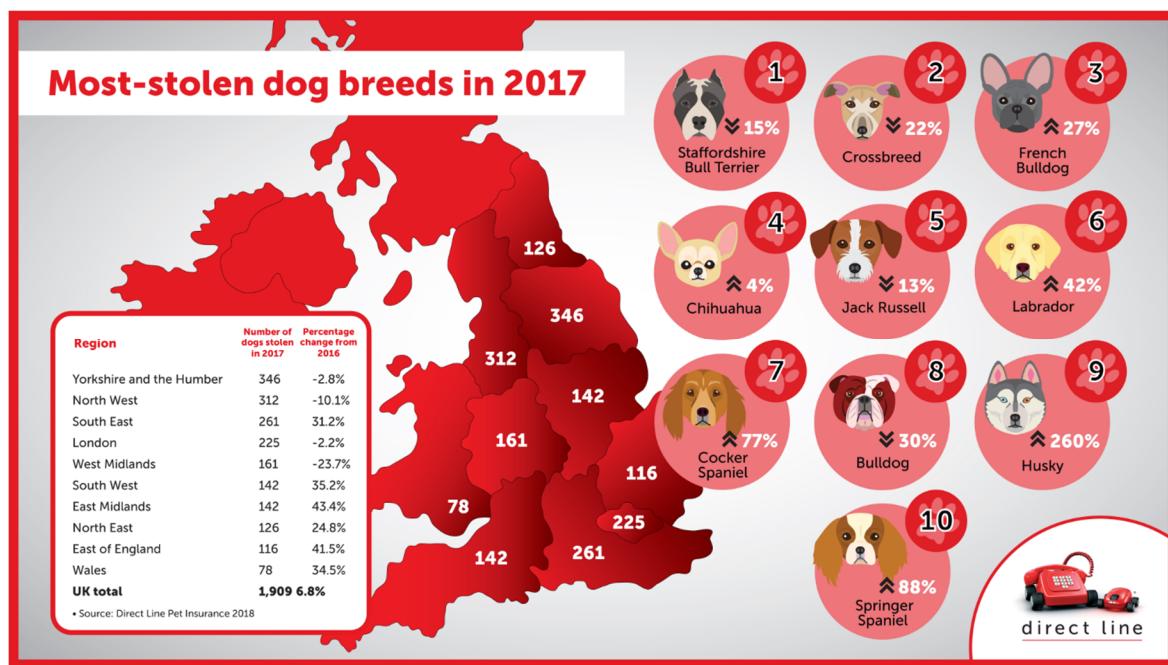
Under UK law, pets including dogs are regarded as 'property' and pet theft is not classified as a specific crime in itself. Sentencing within the Theft Act 1968 is dependent on the monetary value of the stolen animal (under or above £500), and the crime is treated as a category three (fine to 2 years in custody) or category four offence (fine to 36 weeks in custody) in magistrates' court [1, 2]. Despite this legal status, in social terms dogs are generally recognised as members of the family [3, 4, 5]. They are loved, cared for, and accepted as individuals with unique personalities and emotional significance [6]. As such, a significant tension between the social and political dimensions

of pet ownership continues to be exacerbated, whereby the sensual experiences of pet engagement are poorly represented through the legalities of UK law. Such a tension has influenced respective campaigns by the Stolen and Missing Pets Alliance (Sampa) [7] and Dogs Trust [8] to reform the Theft Act 1968 [1] and its associated Sentencing Guidelines [2].

Scholars of human-animal studies maintain that dogs actively shape relations between family members who change everyday practices to incorporate their needs [9, 10, 11]. The rise in positive training, for example, equates to the recognition of sentience and mindedness of dogs [12], and the emotional, affective, and caring relationships they facilitate. Fox argues further that in shaping everyday familial practices animal companions are intrinsic to our 'sense' of home and belonging [3]. Practices such as grooming, walking, and playing not only show the embedding of 'doggy-ness' into family life but are also practices of human care for their animals [13]. Human care can similarly be expressed through a greater diversity and commercialization of pet-related commodities including 'doggy spas' and groomers, pet boutiques, pet hotels, high-end nutritional food markets, pet cemeteries and even pet activities such as 'dog yoga' or 'doggy dancing' [3, 14, 15]. While some of these commodities seem eccentric, they signify an emerging culture of care and the importance of pets to human lives in contemporary society as animals of love and affection. Furthermore, dogs also care for humans through actively embedding physical activity into their lives, providing security and safety, emotional support, and the ability to navigate safely [16, 17, 18]. Other studies point to how dogs also facilitate social interaction by acting as a social stimulus through making people more approachable, being a subject for idle chat of shared interests, and helping provide a sense of community [19, 20].

The human-dog relationship is characterised by affectionate caring practices that work relationally; both human and dog share a unique emotional bond with one another. Self-identifying as 'pet parents' has become a dominant discourse in western society, as has regarding dogs as 'furry children' [4, 5, 10]. Ascribing names, feelings and personalities may be forms of anthropomorphism, but it is a process that allows humans to relate to animals [3]. Experienced and embodied through trust, bodily gestures, and emotional investment, the ability to affect and be affected extends beyond and between human and animal bodies [21]. This can be expressed through owner's recognition of their pets as minded individuals capable of empathizing and comforting them - a form of mutual communication [22]. Haraway maintains that humans and dogs are bonded by 'significant otherness', in 'varied webs of interspecies dependence' [23, 24]. Significantly, many people talk about the emotional difficulties of a pet's death and how it is comparable to the loss of a loved one within the family [15, 25]. Framing pets as both irreplaceable and grievable [14, 25] in this way shows a deeply embodied and emotional relationship of care and companionship [6].

Dog theft is a crime that exploits these relationships [26], and is on the rise in the UK. Freedom of Information (FOI) research conducted by Direct Line Insurance revealed that the number of dogs reported stolen in England and Wales rose from 1,788 in 2016 to 1,909 in 2017 [27]. As can be seen in figure 1, this data is useful for identifying 'most-stolen dog breeds'; information which can inform dog insurance policies, and help raise public awareness through media campaigns.



**Figure 1:** Most stolen dog breeds and total number of dogs stolen by England and Wales regions in 2017 and associated changes since 2016 [27].

A similar study by Emporium Insurance showed 1,712 in 2015, 1,803 in 2016 and 1,977 in 2017 [28]. Media headlines included: 'Lincolnshire 'dog theft capital of Britain'' [29]; and, 'Dog thefts increase by more than 200% in Dyfed-Powys area in just one year' [30]. Public support for pet theft reform grew in 2018. A petition to 'Reclassify the theft of a pet to a specific crime in its own right' gained 107,353 signatures in six months and was debated in Parliament on July 2 2018 [31]. Despite cross-party support, the Rt Hon George Eustice MP concluded that "at the moment the Government are not convinced that we need to change the law," but stressed "that the Government interpret the latest guidance from the Sentencing Council that the theft of a pet should generally be treated as a category two or three offence." Alongside this, Eustice acknowledged "the need for statistics" [32]. The following day, Ross Thomson MP presented the first reading of the Pets (Theft) Bill in the House of Commons; its aim, 'to amend the Animal Welfare Act 2006 and the Animal Health and Welfare (Scotland) Act 2006 to make the theft of pets an offence' [33].

Recognizing that a more robust analysis of dog theft crime statistics is required, this paper (i) examines how dog theft statistics are constructed; (ii) assesses the strengths and weaknesses of this data; and (iii) categorises, maps and measures dog theft changes temporally per police force in England and Wales for 2015, 2016 and 2017.

## 2. Materials and Methods

The analyses presented within this paper are the product of a two-step process. The former involved a data search for any information on dog theft across England and Wales, both qualitative and, predominantly, quantitative sources of information. Objectively, this allowed two key objectives to be answered: i) How are Dog Theft statistics being constructed? and ii) What are the strengths and weaknesses of this data? The second step involved attempting to collect this data ourselves from the 44 police precincts across England and Wales, via the Freedom of Information Act, in order gain a spatial representation of the prevalence of these crimes across the date range 2015-2017. This was completed using ArcGis software. The process of each of these steps is outlined below:

### *i) Data search for dog theft data:*

Despite the increasing prevalence of dog theft across England and Wales [26, 27], our own research demonstrated that data pertaining to such thefts is either particularly coarse - vague and missing large chunks of information – or altogether lacking. An initial data search brought two key sources of dog theft datum to our attention: one compiled by Direct Line Insurance and one compiled by Emporium Insurance. Both data sets were explored in order to try and deconstruct how dog theft statistics are calculated on the national scale and, indeed, to explore the relative strengths and limitations of each data set.

The data supplied by Direct Line and Emporium had followed similar methods of data collection to our own. Via the Freedom of Information Act the company had sent requests to each of the 44 police forces across the England and Wales. In the case of Direct Line, 41/44 forces responded to their requests for the years 2016-2017. The data provides a useful picture of the *number of dogs* stolen by region and further provided a list of the top 10 breeds of dogs which are stolen. However, there were a number of issues. Firstly, the informational sheet which is attached to this data groups the data on a regional basis, despite the geography being provided via each force. Similarly, no graphical or cartographical information is provided. More problematically, however, the data focuses on the number of dogs stolen and not the number of crimes, failing to provide a breakdown as to the crime rate for each force. The number of dogs taken cannot be representative of the crime level as any number of dogs could be taken at one time, particularly given the increase in crime targeting dog breeder where multiple dogs can be taken during one burglary.

Comparatively, the data provided by Emporium Insurance included 38/44 police forces across England and Wales for *number of dogs* stolen. Only 26/44 police forces provided data for number of crimes, with 3 of those 26 sources being particularly coarse. There was greater detail in the different breeds which had been taken and the data did provide a figure as to the number of crimes that had occurred, as well as the number of dogs that were taken. This again illustrates the above point regarding using the number of dogs stolen as an indicator; their data shows that, for example, in 2015 in the West Yorkshire police force jurisdiction, 184 dogs were stolen, but only 164 crimes were recorded as having occurred, which misrepresents the crime rate. Neither of the sources had any information as to the outcome of the crimes.

Thus, such an analysis of existing data reveals a three-fold problem with the ways in which national statistics related to dog theft are being calculated. On the one hand, there is data for some police forces missing entirely, meaning the statistics are not fully representative of the dog theft situation across England and Wales. Of more prominent concern, however, is significant discrepancy between the number of forces' data collected. Given each company devises their own statistics based on their respective data, then it becomes increasingly problematic to track a true, definitive, national picture of this issue. Finally, the use of the number of dogs stolen as a representation of the amount of crime is also problematic, as using data of this type neglects to consider the quantities of dogs that could be taken. That number of dogs is not equivalent to the number of crimes being committed. Given we have utilised two key insurance companies, if other companies are generating similar stats with varying levels of information, then there is a clear need to group this data together in order to develop a more detailed, singular and national focus on dog theft. Indeed, this comprises the focus of stage two of the methods.

### *ii) Data collection and G.I.S analyses:*

In order to begin to further deconstruct the notion of 'pet theft' – its respective characteristics and spatial prominence within England and Wales – we sent our own FOI requests to each of the 44 police precincts across England and Wales. We asked two distinctive questions in relation to dog crime:

*What were the total number of dog theft crimes in 2015/2016/2017?*

*What was the outcome (charge/summons, community resolution, active investigation, evidential difficulties, no suspect identified) for each dog theft crime in 2015/2016/2017?*

We received 39/44 responses for the police forces across England and Wales. Some of the data from different forces was of more detailed quality than others, whereby some precincts would provide just a yearly figure as to how many thefts the system had returned upon using the key word 'dog' in the forces' system search, whilst others provided a breakdown of, for instance, where the crimes had been committed (i.e. in a residential building, in a car or in a public setting). However, this level of detail was seldom given by many police forces. The majority of forces were able to provide details of the outcomes of the dog theft crimes. City of London, Hampshire, Sussex and Wiltshire police forces were unable to provide any data or did not reply to FOIs. Humberside and Heddlu Gwent forces were able to provide *some* information, however, they admitted that this data was limited as the search had been stopped due to the cost/ time it would take for these forces to gather the data. For example, as Humberside Police force detailed to us:

*"Although excess cost removes the forces obligations under the Freedom of Information Act, as a gesture of goodwill, I have supplied information, relative to your request, retrieved or available before it was realised that the fees limit would be exceeded. I trust this is helpful, but it does not affect our legal right to rely on the fees regulations for the remainder of your request."*

Therefore, it was deemed that this data could not be used as we had no idea as to the extent of its detail. Thus, we were able to compile data for 37/44 forces.

The data from each force was compiled in to one larger database – a lengthy process given the differential ways the data had been presented to us. This process entailed sorting the data in to categories, through which some categories, those in table 1, were created and represent an amalgamation of different responses (individually described below). We deemed this exercise important because, as previously described, the data had some discrepancies. For example, the data we were given was entered under the sub-heading 'total claims of dog related crime' for each of the three years. However, this was not taken as the absolute value as there were instances where a 'dog crime' was provided, but was not technically a *theft*. For instance, a lack of detail in data from West Yorkshire in 2017 prevents breaking the data down and therefore the assumption is that these were all thefts, whereas data from the West Midlands in 2017 indicates one recording of dog related crime was fear/ provocation of violence, but this is not technically theft and therefore is not included in the total thefts category. Thus, the data was sorted as best as possible in order to 'clean' it. We do, however, acknowledge that despite our best efforts the data is by no means perfect.

**Table 1:** Any 'merged' categories that were made during the data sorting process. These were rational decisions made to manage the data given the vast differences between how the data is recorded or how it was presented to us.

<u>Merged categories:</u>	<u>Explanation/ rationale:</u>
<b>Theft in public:</b>	Any instance where the pet was taken in the public, such as at an ATM or in a Store. This does not include thefts that took place in vehicles (separate classification, below) or thefts that took place within buildings deemed as businesses.
<b>Theft of/ from a vehicle:</b>	Any instance where a pet was taken from a car, or was within a car when the vehicle was stolen.
<b>Evidential difficulties:</b>	This includes instances where either the police deemed there not to be enough evidence to proceed, thus closing the case, or where the public were willing to cooperate but could not provide evidence.
<b>Withdrawn support/unwilling to assist:</b>	Instances where the public could not or did not cooperate with the police investigation, therefore closing the case. This is separated from evidential difficulties as it could demonstrate false reporting, such as a domestic dispute over pet ownership etc.

<b>Not in public interest (police decision)/ prevented:</b>	This includes instances where the crime was classified as 'prevented' - assumption is that the crime did not happen. It also includes instances where the police deemed the prosecution as not being worth pursuing, usually because the dispute was settled.
<b>No further action:</b>	Instances where 'no further action' was listed in the data, where the case was cancelled or transferred by the precinct, or where the case was falsely recorded.
<b>Penalty notice / caution / other:</b>	Any instance where a penalty notice or fine was implemented as punishment, where a police caution was given instead of an arrest, or where a court summons is recorded but the outcome of which is not described further. This also includes categories such as youth restorative programmes, extended professional opinions, situations where complaints were made, or where another force had primacy jurisdiction. It also includes court disposal of cases or instances where prosecution time was marked as 'expired'.

### *iii) G.I.S. spatial mapping:*

Once the data had been managed we then categorised the data via a class system of 7 classes chosen due to the best number for representing colour categories (table 2 below). This measured the number of reported crimes in quantities of 39. Maintaining these classes enabled comparisons of how the number of dog thefts has risen or fallen for each police force over the years of interest to the study. The objective here was not to compare the data between forces, as despite sorting the data there were unavoidable biases relating to how the data had been managed or input in to the system (owing to the lack of treating pet theft as a crime in its own right), but to show the spatial variation registered dog thefts by different precincts.

Once classes had been assigned, the database was imported in to ArcMap and joined with the Police Force Areas (December 2016) Shapefile provided by the Office for National Statistics [34]. The same colour symbology was adopted consistently for each of the categories across each of the years.

**Table 2:** Class ranges used across the data set for the purposes of spatial mapping.

Class	A	B	C	D	E	F
Range	Null	0-39	40-79	80-119	120-159	160+

### *iv) Crime rates:*

For crime rates to be calculated, the estimated population of police force areas were identified from the Office for National Statistics for 2015, 2016 and 2017. The annual number of dog theft crimes per force were divided by the estimated population then multiplied by 100,000.

## 3. Results and Analysis

### 3.1. Theft in England and Wales

Dog theft crime is not recognised by the Office for National Statistics on their 'Crime in England and Wales: Police force area data tables'. Therefore, FOI requests are the only way to access this data. Table 3 shows the various classifications of theft used by Police Forces and the Sentencing Council - these figures are available in the public domain through the Office of National Statistics [35]. Police forces can label dog theft and pet theft as burglary, domestic burglary, vehicle

offences, theft from the person, and other theft offences. The number of thefts rose annually from 1,762,473 in 2015, 1,820,079 in 2016 (up 3.26%), and 2,011,942 in 2017 (up 10.54%) as shown in table 3. It is important to situate our research with broader theft offences within the UK.

**Table 3:** Crime in England and Wales (adapted by authors from Office for National Statistics data)

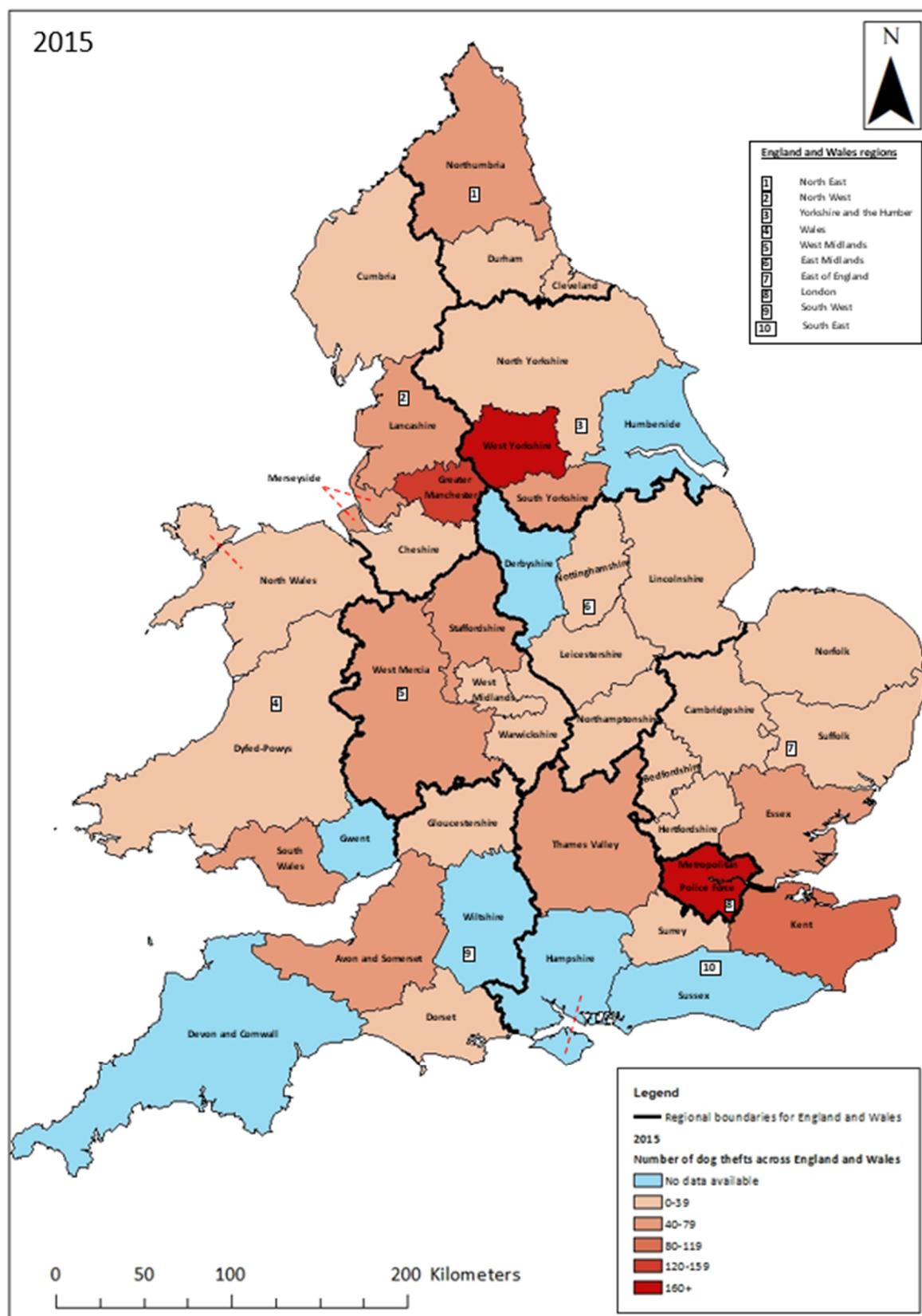
	Theft offences	Burglary	Domestic burglary	Non-domestic burglary	Vehicle offences	Theft from the person	Bicycle theft	Shoplifting	Other theft offences
2015	1,762,473	401,718	193,851	207,867	364,468	82,384	87,895	333,671	492,337
2016	1,820,079 (+3.26%)	404,282 (+0.63%)	200,659 (+3.51%)	203,623 (-2.04%)	389,371 (+6.83%)	86,548 (+5.05%)	90,910 (+3.43%)	358,235 (+7.36%)	490,733 (-0.32%)
2017	2,011,942 (+10.54%)	438,971 (+8.58%)	288,728 (+43.88%)	150,243 (-26.21%)	452,683 (+16.16%)	99,101 (+14.50%)	102,581 (+12.83 %)	385,265 (+7.54%)	533,341 (+8.68%)

### 3.2. Dog Theft in England and Wales

In 2015, the forces with the highest number of dog theft crimes (DTCs) were the Metropolitan Police (167), West Yorkshire (166), Greater Manchester (120), Kent (102) and Essex (74). The lowest recorded dog theft crimes were in Cheshire (6). These are indicated on the map in figure 2. The dark red specifies 160+ DTCs (i.e. Metropolitan Police and West Yorkshire police) whereas the pale orange specifies 0-39 DTCs (i.e. Cheshire Police). Furthermore, the blue shows the police force areas in which we had no data (i.e. Wiltshire Police). Overall 21 police forces experienced numbers in dog theft crimes between 0-39. Furthermore, figure 2 shows that neighbouring police forces of Metropolitan police, West Yorkshire Police, and Greater Manchester Police typically have higher rates such as Lancashire, Merseyside, South Yorkshire, Kent, Thames Valley, Essex. The three areas with the greatest number of DTCs, Metropolitan, West Yorkshire, Greater Manchester, also had some of the highest numbers of police per 100,000 people, 1st 10th and 5th respectively, and hold greater populations.

The number of dog theft crime charges also varied. In Greater Manchester there were 6 charges from 120 dog theft crimes (5%) whereas in Northumbria there were 44 dog theft crimes with 6 charges (13.64%). The FOI requests do not, however, make it clear whether charges for dog theft crime relate to multiple dog thefts or one. This is important as this can misconstrue the crime rate. FOI requests were made to the Ministry of Justice to access information on sentences - their response stated 'centrally held information cannot identify dog theft from other theft. Therefore any request for this information is likely to require a manual search of all sentenced cases related to theft.' With 'over 77,000 sentences handed down by courts in England and Wales cases related to theft', accessing this data is near impossible [36].

Exploring DTCs per 100,000 people (DTC rates), we found that West Yorkshire ranks highest (7.27), followed by Kent (5.66), Staffordshire (4.93), South Wales (4.74), and Greater Manchester (4.35). The lowest DTCs per 100,000 was Cheshire (0.57). Metropolitan Police (1.92) had a relatively low DTCs per 100,000, compared to the number of dog theft crimes (167). While the Metropolitan Police has highest DTC rate in 2015 and currently the most police officers per 100,000 the DTC rate per 100,000 is low due to the Metropolitan area having the highest population in the England and Wales. On the other hand, Staffordshire (4.93) had a relatively high DTCs per 100,000 compared to the number of dog theft crimes (55). They are ranked 41st for police per 100,000 people. Overall, the police force data available to us through FOI requests showed 1,294 dog thefts nationally in 2015. The outcome of 792 cases was 'no further action' (61.2%), and there were 62 charges (4.7%).



**Figure 2:** Number of dog theft crimes recorded by each police force in England and Wales in 2015.

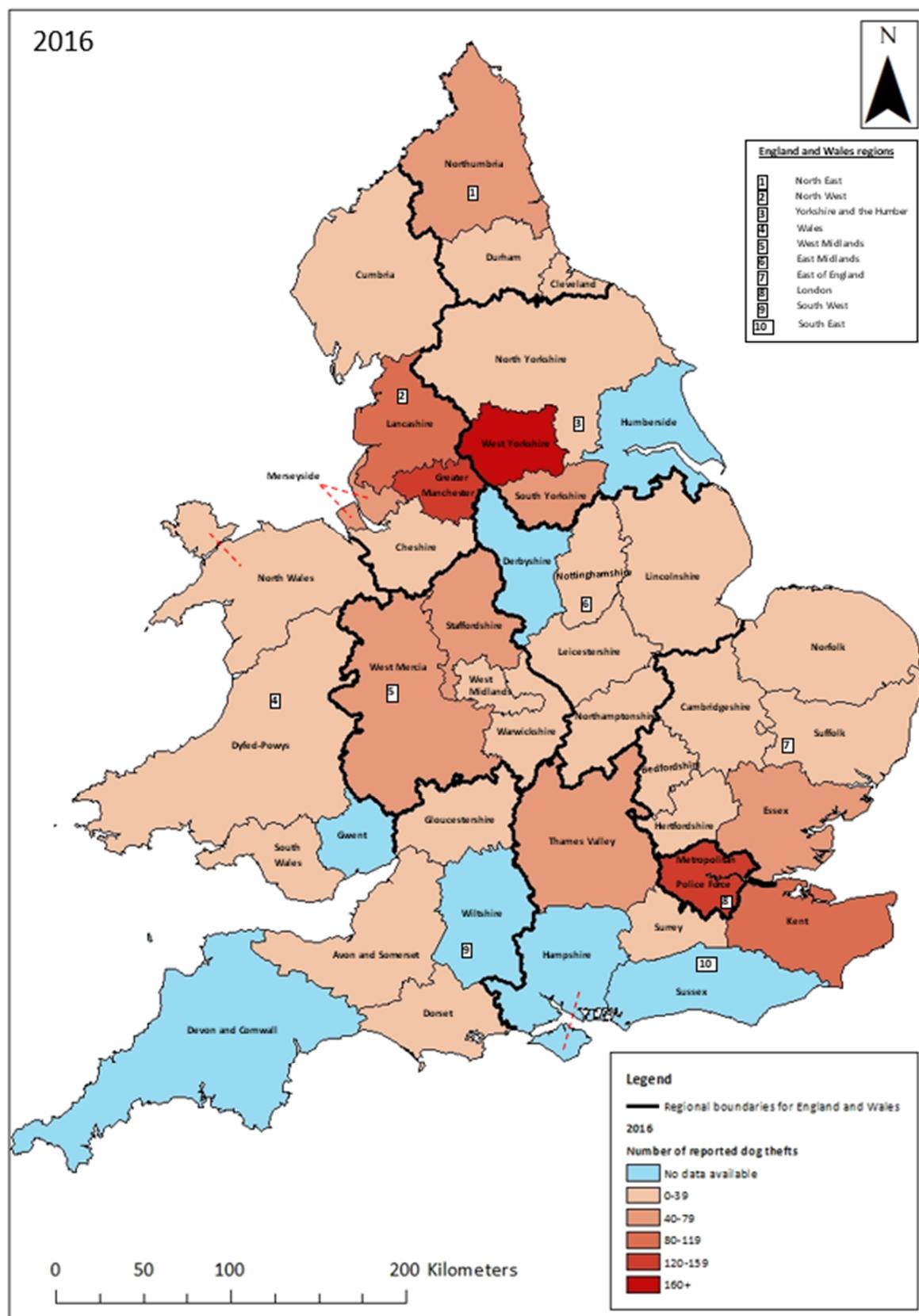
In 2016, the forces with the highest number of dog theft crimes were West Yorkshire (197), Metropolitan (137), Greater Manchester (132), Kent (107) and Lancashire (100). The lowest recorded

dog theft crimes were in Surrey (10). In figure 3, West Yorkshire is shown in the category 160+, Metropolitan and Greater Manchester in the category 120-159, and Kent and Lancashire in the category 80-119. The four police forces experiencing the highest number of DTCs in 2015 are also experiencing the highest in 2016. There is some movement with the West Yorkshire recording 197 DTCs (+31) and the Metropolitan recording 137 (-30). Furthermore, Lancashire replaces Essex with the 5th highest DTC rate. Surrey has the lowest number of DTCs with 10 whereas Cheshire - the lowest in 2015 with 6 - increased by 13. Surrey and Cheshire remain in the 0-39 category which has 23 police forces. Additionally, a pattern recognised for the mapped 2015 data - neighbouring policing areas of Metropolitan, West Yorkshire, and Greater Manchester police forces having higher DTCs which decrease outwards - is also shown in figure 3.

The forces with an annual increase in DTCs from 2015-2016 include Lancashire 100 (+41), West Yorkshire 197 (+31), West Mercia 61 (+18), Northumbria 61 (+17), Staffordshire 68 (+13), Cheshire 19 (+13), Great Manchester 132 (+12), Merseyside 65 (+12) Durham 23 (+10) Cambridgeshire 25 (+9), Lincolnshire 21 (+7), South Yorkshire 65 (+7), Cleveland 22 (+6), Dorset 12 (+5), Kent 107 (+5), North Wales 21 (+5), North Yorkshire 23 (+2), and Nottinghamshire 16 (+1). The forces with an annual decrease in DTCs include - South Wales 27 (-35), Metropolitan 137 (-30), Avon and Somerset 21 (-27), Norfolk 15 (-17), Northamptonshire 11 (-14), Essex 67 (-7), Suffolk 12 (-6), Gloucestershire 13 (-5), Hertfordshire 18 (-5), Dyfed-Powys 14 (-4), Cumbria 12 (-3), and Surrey 10 (-2). Overall, there was a yearly increase in DTCs of 17.85% from 2015-2016.

In Northumbria there were 7 charges from 61 DTCs (11.48%), compared to Great Manchester 3 charges from 132 DTCs (2.27%). In presenting these, again a similar issue arises as FOI requests do not, however, make it clear whether charges for dog theft crime relate to multiple dog thefts or one. This is important as this can misconstrue the crime rate.

In 2016 West Yorkshire retained the highest rank DTC per 100,000 (8.58), followed by Lancashire (6.73), Staffordshire (6.07), Kent (5.88) and West Mercia (4.83). The lowest DTCs per 100,000, is Surrey (0.84). West Yorkshire has the most DTCs in 2016 and also the highest DTCs per 100,000 people whereas Surrey has both the lowest DTC in 2017 and the lowest DTCs per 100,000 people. Staffordshire's DTC rate per 100,000 has increased from 2015 (4.93) to 6.07 as it recorded 13 more DTCs in 2016. The Metropolitan Police still has a relatively low DTC per 100,000 (1.56) compare to its 2nd highest DTC rate of 137 (2015 - 167 DTCs, 1.97 crimes per 100,000). Overall, there were 1,525 dog theft crimes in 2016, an annual increase of 17.85%. Of these, the outcome of 934 ended with no further action (61.24% - a 17.92% increase from 2015), and 48 (3.14%).



**Figure 3:** Number of dog theft crimes recorded by each police force in England and Wales in 2016.

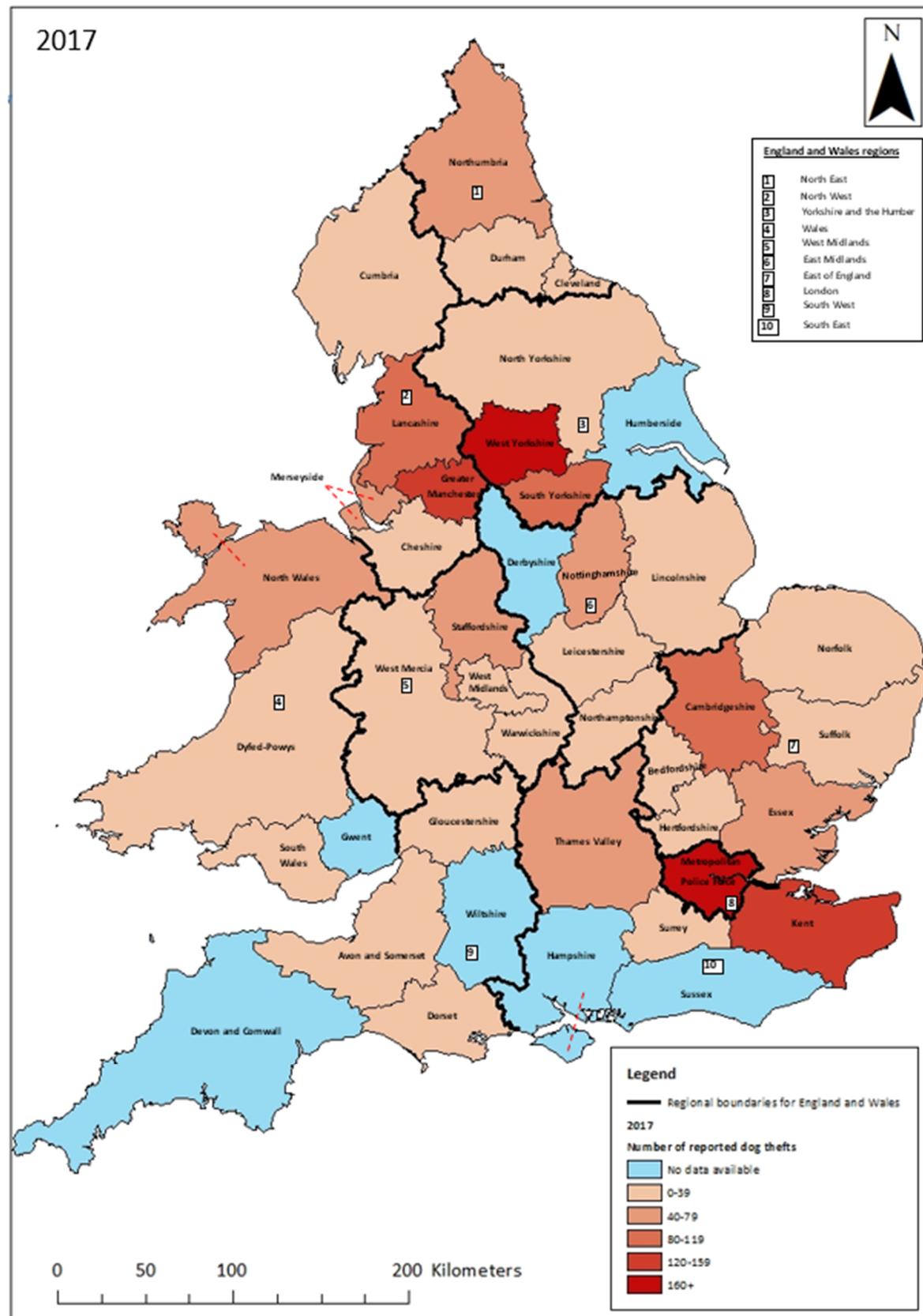
In 2017, the forces with the highest number of dog theft crimes were West Yorkshire (172), Metropolitan (169), Greater Manchester (146), Kent (130) and Lancashire (93). The lowest recorded dog theft crimes were in Cheshire (4). Similarities emerge from the 2016 data as the five police

forces with the highest DTCs in 2016 also have the highest DTCs in 2017. After having an increase of 13 DTCs from 2015-2016, Cheshire then recorded the lowest DTCs in 2017. In figure 4 West Yorkshire and Metropolitan Police forces are in the 160+ category, Greater Manchester and Kent in the 120-19 category, and Lancashire in the 80-119 category. Cheshire is in the lowest category 0-39 with 20 other police forces. Additionally, a pattern continues for the mapped 2015 and 2016 data - neighbouring policing areas of Metropolitan, West Yorkshire, and Greater Manchester police forces having higher DTCs which decrease outwards - is also shown in figure 3.

The police forces which experienced increasing dog theft crimes were Metropolitan (+32), Thames Valley (+25), Kent (+23), Nottinghamshire 43 (+27), North Wales 40 (+19), Dyfed-Powys 31 (+17), South Yorkshire 82 (+17), Cambridgeshire 41 (+16), Durham 37 (+14), Greater Manchester 146 (+14), Norfolk 29 (+14), Northumbria 74 (+13), Cumbria 24 (+12), Bedfordshire 20 (+4), Dorset 16 (+4), Northamptonshire 15 (+4), West Midlands 29 (+4), Cleveland 25 (+3), Lincolnshire 24 (+3), Merseyside 68 (+3), Staffordshire 70 (+2), and Suffolk 13 (+1). The police force which experienced decreasing rates of dog theft crime was West Mercia 35 (-26), West Yorkshire 172 (-25), Cheshire 4 (-15), Essex 52 (-15), South Wales 17 (-10), North Yorkshire 15 (-8), Lancashire 93 (-7), Leicestershire 23 (-6), Surrey 8 (-2), and Hertfordshire 17 (-1). Overall, from 2016-2017 there was a 10.03% increase in DTCs.

The numbers of people charged also varied. While Kent experienced 130 dog theft crimes in 2017, there were only 4 charges (3.07%). Whereas, in Bedfordshire there were 20 dog theft crimes, with an outcome of 4 charges (20%). There is a vast difference between the number of dog theft crimes and the number of people charged for these Kent and Bedfordshire police forces. However, there is little difference between the number of police officers per 100,000 people (17th and 22nd respectively).

The highest dog theft crime rates in 2017 per 100,000 were West Yorkshire (7.45), Kent (6.72), Lancashire (6.23), Staffordshire (6.21) and Dyfed-Powys (5.99). The lowest recorded dog theft crime per 100,000 people was Cheshire (0.37). West Yorkshire has the most DTCs in 2017 as well as previously in 2016, and also has the highest DTCs per 100,000 people from 2015-2017. Cheshire has both the lowest DTC in 2017 and the lowest DTCs per 100,000 people. Staffordshire's DTC rate per 100,000 has increased from 2016 (6.07) to 6.21 as it recorded 2 more DTCs in 2017 (70). The Metropolitan Police still has a relatively low DTC per 100,000 (1.91) compare to its 2nd highest DTC rate of 169. Overall, there were 1,678 dog thefts nationally in 2017. Of these, the outcome of 985 was no further action (58.70%) and there were 37 charges (2.20%). Whilst there was an increase in dog theft crimes annually there was also a decrease in the number of charges annually.



**Figure 4:** Number of dog theft crimes recorded by each police force in England and Wales in 2017.

Our findings, in table 4, reveal there has been an increase in dog theft crimes in England and Wales, 1,294 in 2015, 1,525 in 2016, 1,678 in 2017; and a decrease in court charges related to dog theft crimes, 62 (4.7%) in 2015, 48 (3.14%) in 2016, 37 (2.2%) in 2017. In each of those years the outcome of no further action remained relatively stable at 61.2% (2015), 61.24% (2016), 58.70% (2017). In the context of overall number of theft offences in England and Wales, there had been a 3.26% increase in 2016 compared to a 17.85% increase in dog theft crimes; and 10.84% in 2017, in line with a 10.03% increase in dog theft crimes in 2017. These figures, however, are only indicative as seven forces could not supply dog theft data.

<b>Table 4:</b> Number of dog thefts nationally and the number of outcomes in terms of no further action and charges.					
Year	No. thefts nationally	No. No Further Action	% NFA	No. charged	% charged
2015	1294	792	61.20%	62	4.70%
2016	1525 (+17.85%)	934 (+17.92%)	61.24%	48 (-22.58%)	3.14%
2017	1678 (+10.03%)	985 (+5.46)	58.70%	37 (-22.91%)	2.20%

Our research also revealed wider discrepancies with the data provided from FOI requests by Emporium and Direct Line. Emporium, for example, stated 152 dogs had been stolen from Lincolnshire in 2017, compared to the 27 stolen dogs stated by Direct Line. Our own FOI data, which was the last to be requested, revealed only 24 dog theft crimes (table 5). While we acknowledge these are “live” systems and ‘recording these figures are not generic, nor are the procedures used locally in capturing the crime data’, it makes little sense if ‘this force’s response to your questions should not be used for comparison purposes with any other response you may receive’ [38].

<b>Table 5:</b> FOI data from Emporium, Direct Line and Allen et al			
Police force area	No of dogs stolen 2017 (Emporium - FOI January 2018)	No of dogs stolen 2017 (Direct Line - FOI February 2018)	No of dog theft crimes 2017 (Allen et al - FOI May 2018)
Avon and Somerset	19	21	21
Bedfordshire	17	18	20
Cambridgeshire	36	40	41
Cheshire	1	4	4
Cleveland	24	28	25
Cumbria	No Data	23	24
Derbyshire	11	11	No Data
Devon and Cornwall	80	80	No Data
Dorset	28	28	16
Durham	51	51	37
Dyfed-Powys	70	36	31
Essex	60	No Data	52
Gloucestershire	14	13	10
Greater Manchester	148	157	146
Gwent	14	12	No Data
Hampshire	No Data	No Data	No Data
Hertfordshire	22	17	17

Humberside	44	52	No Data
Kent	130	160	130
Lancashire	116	99	93
Leicestershire	23	27	23
Lincolnshire	152	27	24
Merseyside	29	29	68
Metropolitan Police	225	225	169
Norfolk	31	29	29
North Wales	No Data	No Data	40
North Yorkshire	15	19	15
Northamptonshire	15	34	15
Northumbria	47	47	74
Nottinghamshire	43	43	43
South Wales	22	30	17
South Yorkshire	108	103	82
Staffordshire	73	76	70
Suffolk	No Data	12	13
Surrey	9	8	8
Sussex	No Data	No Data	No Data
Thames Valley	No Data	93	72
Warwickshire	12	12	13
West Mercia	63	40	35
West Midlands	31	33	29
West Yorkshire	221	172	172
Wiltshire	17	No Data	No Data

Data from Merseyside also showed that FOI requests from both Emporium and Direct Line listed 29 stolen dogs in 2017, yet our FOI reveals 68 dog theft crimes. This suggests the number of stolen dogs supplied by Merseyside Police is incorrect or incomplete. Furthermore, this discrepancy in the numbers could be due to a lack of a universal recording system for dog theft crimes as we have stated dog theft crimes can be recorded as anything from a domestic burglary to theft from a person.

**Table 6:** FOI from 2015, 2016, 2017 with associated crime rates per 100,000 people.

Police force area	No of dog theft crimes, 2015	Crime rate per 100,000 2015	No of dog theft crimes 2016	Crime rate per 100,000 2016	No of dog theft crimes, 2017	Crime rate per 100,000 2017	Police per 100,000 population (rank) [37]
Avon and Somerset	48	2.88	21	1.24	21	1.23	153 (35)
Bedfordshire	15	2.29	16	2.41	20	3.00	170 (22)
Cambridgeshire	16	1.90	25	2.97	41	4.83	163 (32)
Cheshire	6	0.57	19	1.81	4	0.37	192 (15)
Cleveland	16	2.84	22	3.89	25	4.41	222 (6)
Cumbria	15	3.01	12	2.40	24	4.81	220 (8)



#### 4. Conclusions

In this paper we have examined how dog theft crime statistics are constructed; assessed the strengths and weaknesses of this data; and categorised, mapped and measured dog theft changes temporally per police force in England and Wales. Our findings revealed an annual increase in dog theft crimes, from 1,294 in 2015, 1,525 in 2016 (+17.85%), and 1,678 in 2017 (+10.03%). Despite the year-on-year rise of dog theft crimes, court charges related to dog theft are decreasing from 62 (4.7%) in 2015, 48 (3.14%) in 2016, and 37 (2.2%) in 2017. The proportion of court charges are significantly small in relation to crimes recorded.

We found both strengths and weaknesses within the data we used. Firstly, although our dog theft crime database provides the most robust dog theft crime data available for England and Wales in 2015, 2016 and 2017, the dataset remains incomplete. There were police force inconsistencies in recording dog theft crime which meant some data was unusable or could not be accessed or analysed. This has implications on the accuracy of any spatial analysis. Secondly, FOI requests are the only way to access this data. This led to some of the data from some police forces not being provided due to the cost and time requirements of searching and providing the data. As a result, 7 of 44 police forces could not supply useable data.

Other issues arose due to dog theft not being classified as a crime in its own right. This showed through a lack of universal recording and the data being very vague or coarse. The quantitative analysis of police force data we have presented only provides a superficial understanding of dog theft crime in the areas included - the figures do not reveal why dog theft crime is increasing or decreasing. Furthermore, our approach has not taken into consideration the experiences of those involved in dog theft. Pet ownership is a highly emotional, affective, and caring practice and pets are important in shaping the lives of humans [3,6,13]; and stakeholder perspectives would provide a more detailed insight.

Consequently, we have two key recommendations. First, there is a need for a qualitative study to understand dog theft crime in different parts of the country. While our approach was important, it did not tell us why dog theft crime and related charges increased or decreased annually from 2015-2017. A qualitative study with victims of dog theft, theft support organizations, police officers, and convicted dog thieves, will help understand why dog theft crime increased/decreased in certain areas. Furthermore, as we have shown, some police forces have a higher percentage rate of people charged for dog theft crimes, and others have seen a decrease in dog theft crimes. A qualitative study is required to understand stakeholder perspectives of dog theft crime in specific areas. This would take into account police force strategies, external factors such as the media engagement and organizational collaboration, and the experiences of victims of dog theft crime. Alongside this, the databases of stolen and missing pet organisations could also be analysed to gain a better quantitative understanding of the spatialities of dog theft.

Second, there is a need for a standardised approach to recording dog theft to help provide greater transparency of dog theft crimes in England and Wales. This could be achieved by classifying dog theft (or pet theft more generally) as a crime in itself under the Sentencing Guidelines associated with the Theft Act 1968. Classifying dog theft as a crime in itself will also help compare and contrast the spatiality of dog theft crime which will detail the police force jurisdictions with greater problems with dog theft crime. The classification of dog theft as a crime in itself will also reflect the greater public discourse around dog ownership and will help situate them as emotional sentient beings rather than disposable inanimate objects.

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