

Chapter 1

Introduction

Peter Atkins

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9		9
10	Why So Few Animals in Urban History?	10
11		11
12	Until recently it was still possible to say that ‘you will find no mention of animals in	12
13	contemporary urban theory’ but in the first decade of the new century the literature	13
14	has changed, rapidly, with animal-centredness emerging right across the spectrum	14
15	from the arts and humanities, through social sciences such as human geography, to	15
16	scientific interest in urban ecosystems. ¹ Jennifer Wolch’s original aim in making	16
17	her statement was to initiate the development of a trans-species theory that would	17
18	be the foundation of an ‘eco-socialist, feminist, anti-racist urban praxis’. ² As it	18
19	happened, her explanation of ‘why animals matter (even in cities)’ was pushing at	19
20	an already opening door. The ‘divide’ between humans and animals – and more	20
21	broadly between culture and nature – was coming under sustained and withering	21
22	fire from several philosophical directions, and the result has been an enhanced	22
23	considerability of animals that could only have been dreamt of three decades ago.	23
24	There are several, related reasons for the previous neglect of urban animals.	24
25	Taking an historical perspective of ontology, the first of these is traceable to the	25
26	Cartesian mind/body split, which, along with some forms of religious-inspired	26
27	rationalism, is said to have dominated Enlightenment thinking on the mechanistic	27
28	character of the human body and of natural beings. ³ Abstract metaphysics and	28
29	detached, objective knowledge were privileged during this period over affect; and,	29
30	later, in modernity, such dualistic logics continued to underlie and legitimate the	30
31	desire of society to dominate nature, bring it under control, and modify it to human	31
32	advantage. ⁴ As a result, some have argued that a ‘natureless’ or ‘post-natural’ urban	32
33	realm was an active goal of the modern age. Such a state could never have been	33
34	achieved literally, of course, not least because the principal inhabitant of cities	34
35	was a large-brained bipedal primate that displayed many animal characteristics	35
36	and behaviours. ⁵	36
37	A problem with this first argument is that it is from time to time repeated	37
38	without nuance and without empirical justification. At the very least, it should be	38
39		39
40		40
41	1 Wolch 1996: 21.	41
42	2 Wolch, West and Gaines 1995.	42
43	3 Jones 2009.	43
44	4 Goldman and Schurman 2000.	44
	5 Morris 1969.	

1 tested in different cities at different times. As will be seen in Chapters Two and 1
 2 Three of this book, there were large numbers of animals in many cities before 2
 3 1850. They were at the centre of a circulating system which used their wastes to 3
 4 fertilize peri-urban agricultural production, which in turn then supplied fodder 4
 5 to close the loop. The evidence that these animals were unwelcome in the city is 5
 6 lacking until the middle of the nineteenth century. It was the birth of the sanitary 6
 7 idea that was responsible for a reassessment but it was not until the end of the 7
 8 century, or even later in some European and North American cities, that the ‘Great 8
 9 Separation’ of human residence from animal production began. So, dualism is too 9
 10 crude a frame to be useful, as we will see throughout this book. Indeed, with Bruce 10
 11 Braun, we might reject such philosophical binaries and analyse instead society’s 11
 12 attempts to impose difference. For him, there is 12

13
 14 a single ontological plane ... from which emerges the differentiated and 14
 15 differentiating worlds that we inhabit. Hence there is not a social realm in 15
 16 one location and a separate natural realm elsewhere, nor a dialectical relation 16
 17 between them; rather the things that we consider to be natural or social can 17
 18 be considered so only through practices of purification by which objects are 18
 19 assigned to either pole.⁶ 19

20
 21 A second reason why animals have not been prominent is that in the twentieth 21
 22 century the study of cities was anthropocentric, to the extent that the category 22
 23 ‘urban’ acquired a transcendently humanist quality in which animals played only 23
 24 bit parts, to satisfy our hunger for companionship or for meat. Even when the words 24
 25 ‘urban ecology’ were used in the 1920s by the Chicago School of sociology to 25
 26 characterize their analysis of locational behaviour and land use patterns, it was only 26
 27 the human animal that was of interest to them. The 1960s and 1970s saw a further 27
 28 development of this type of modelling, requiring simplifying assumptions in order 28
 29 to achieve meta-generalizations. Fauna, flora, water, climate and geomorphology 29
 30 were all erased in the rush for human behavioural insights that were undisturbed by 30
 31 physical contingency. On reflection, this was not necessarily a conscious disregard 31
 32 of animals but an artefact of a humanist and positivist performance of knowledge.⁷ 32

33 Third, human imaginaries have been powerful and directional in their 33
 34 classification of urban animals and, as a result, four categories have arisen: 34

- 35
 36 (a) useful animals, for traction or meat; 36
 37 (b) those which can be enjoyed, such as wild garden song birds; 37

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 40 ⁶ Braun 2009: 27. 39

41 ⁷ Modernist thinking can be made to sound like a conspiracy against animals but in 40
 42 practice it is arguable that urban historians had many more important research priorities to 41
 43 address. According to this argument, the time of animals would have come eventually as 42
 44 academic fashions ebbed and flowed, and so even modernism retained a (small) place in its 43
 44 philosophical heart for animals. 44

1 (c) those which are desirable, for example companion animals; and 1
 2 (d) species which have transgressed, such as rats, cockroaches and pigeons, 2
 3 and are judged to be vermin because they are 'out of place' in the city. 3
 4 4

5 It is this last group that has been especially influential, representing as it does 5
 6 human-animal boundary work, where the othering of certain species facilitates 6
 7 their 'cleansing' from an increasingly 'pure' urban landscape. 7

8 Considering this marginalization process in more detail, feral pigeons are a 8
 9 good example because there are so many living in cities in Europe and North 9
 10 America. Feeding them is criminalized in some cities; pigeons are trapped or 10
 11 killed in others; and their perching is often discouraged by spikes or sticky gel. 11
 12 In short, they are a 'problem' species, along with starlings and house sparrows.⁸ 12
 13 Recognizing the subjectivity of such animals and their everyday 'dumb' resistance 13
 14 to human demands would be a step forward for an animated urban history.⁹ 14

15 A major foundational element of the purification style of thinking, which is often 15
 16 neglected in presentist animal studies, is the public health debate of the nineteenth 16
 17 and early twentieth centuries, when certain animals were linked to the spread of 17
 18 disease. An example is the house fly, which was largely invisible before the 1890s 18
 19 when at last it was 'found' to be a significant vector.¹⁰ Another is the rat, for centuries 19
 20 a potent symbol of plague and pollution.¹¹ Rats are the closest to a mid-way category 20
 21 between the realms of humans and of urban wild animals. Their evolution has 21
 22 mirrored that of humans and they have been largely dependent for their spread and 22
 23 their livelihood upon unconscious human generosity.¹² 'Becoming rat', in the sense 23
 24 of Deleuze and Guattari, has been a minoritarian deviance from human goals but 24
 25 rats have nevertheless been astonishingly successful in their strategies.¹³ Rat city is 25
 26 a parallel, subaltern universe that the complacent among us like to pretend is virtual 26
 27 but which is all too present and real for people living in rat-friendly housing.¹⁴ 27

28 Joanna Dyl's discussion of San Francisco in the first decade of the twentieth 28
 29 century is interesting because she finds that the city's 'war on rats' that accompanied 29
 30 an outbreak of bubonic plague had consequences for other animals.¹⁵ Domestic 30
 31 pets and working horses were tolerated but the authorities put heavy restrictions 31
 32 upon back-yard chickens because their coops and feed were thought to attract 32
 33 rodents.¹⁶ A 1908 ordinance required concrete floors and brick or concrete walls 33
 34 34

35 _____ 35
 36 8 Jerolmac 2007, 2008. 36

37 9 Miele 2009, Hribal 2007. 37

38 10 See Chapter Two. 38

39 11 Burt 2006a. 39

40 12 Zinsser 1934. 40

41 13 Lawlor 2008. 41

42 14 For a fascinating account of rats in mid-nineteenth century London, see Mayhew 42
 1861, vol. 3: 1–24.

43 15 Dyl 2006. 43

44 16 For a similar story in Australia, see Chapter Eight. 44

1 for coops, effectively pricing out many of the poor householders for whom eggs 1
 2 and chicken meat were a source of income and nutrition. Their small-scale, part- 2
 3 time production was replaced by large-scale, capitalized enterprises that, from the 3
 4 outset, understood the discourse and therefore emphasized cleanliness. A similar 4
 5 story could be told of milk production, which was excluded from the city in 1910, 5
 6 or of the controls that were imposed on the movement of horse manure from the 6
 7 city’s stables. The anti-rat campaign therefore turned into a wide-spectrum review 7
 8 of the place of animals in what it meant for San Francisco to be a city. 8

9 9

10 10

11 **Urban Environmental History** 11

12 12

13 One disciplinary setting for the study of nature and culture has been ‘environmental 13
 14 history’ and its recent offspring, ‘urban environmental history’. Fortunately both 14
 15 are well served with a number of state-of-the-art review papers and there is no 15
 16 need for us to cover this ground again in detail.¹⁷ Instead, a brief reprise of the 16
 17 themes that have emerged will help to illustrate the field within which the present 17
 18 book was conceived. 18

19 The first theme has been the modification of the physical environment, for 19
 20 good or ill. This includes the levelling or grading of slopes, the filling, diversion 20
 21 or culverting of streams and rivers, and the sterilizing of vast areas of soil and 21
 22 rock under concrete and tarmac.¹⁸ Stuart Oliver’s account of the construction 22
 23 of the Thames Embankment is exemplary in this genre because it illustrates the 23
 24 complexity of the planning and engineering process but also demonstrates the 24
 25 Victorian discourse of dominance over unruly nature.¹⁹ The same might be said 25
 26 for the several studies of the creation of the underground city to serve the needs 26
 27 of advanced technical infrastructures, such as pipes and sewers, cable ducts, 27
 28 and railways.²⁰ One argument has been that these services have become so vital 28
 29 for the continued growth and efficiency of urbanism that ‘networked cities’ are 29
 30 representative of a new phase of urban civilization.²¹ Our dependence upon these 30
 31 systems is now so great that any interruption is catastrophic, such as the power 31
 32 grid failure and extensive blackout in the north east of the United States in 2003.²² 32
 33 Animals are also affected by network disruptions but their resilience is influenced 33
 34 more by the hard landscape and systems of tunnels than it is by the services 34
 35 they contain. By way of illustration, the heat island generated as a side effect of 35

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39 17 Melosi 1993, Rosen and Tarr 1994, Hays 1998, Platt 1999, Tarr 2001, Merchant 39
 2002, Schott 2004, Isenberg 2006, Brantz, 2007, Melosi 2010.

40 18 Colten 2005, Klinge 2007, Penna and Wright 2009. 40

41 19 Oliver 2000, 2002. 41

42 20 Trench and Hillman 1985, Gandy 1999. 42

43 21 Tarr and Dupuy 1988, Graham and Marvin 2001. 43

44 22 Bennett 2005. 44

1 urbanization would continue to provide wild habitat modification for animals even 1
 2 if all humans left the city. 2

3 New Orleans is another example of the challenges of making nature yield to the 3
 4 basic needs of a city site. Not only were the city's sea defences complicated and 4
 5 expensive to erect but they proved to be fatally flawed in the flooding of 2005. The 5
 6 articles in volume 35, part 4 (2009) of the *Journal of Urban History* on Hurricane 6
 7 Katrina show that this disaster was the culmination of an environmental history 7
 8 of neglect and partiality by the authorities which put poor people at greatest risk 8
 9 of flooding. A related sub-theme has been the environmental damage that may be 9
 10 the unintended consequence of urban growth. Historically there have been many 10
 11 examples, such as smoke from domestic fires, industrial pollution and the discharge 11
 12 of raw sewage into urban rivers and water bodies.²³ These have been especially 12
 13 important in changing the scope and balance of animal and insect niches in cities, 13
 14 as have occasional disasters such as fires, earthquakes and floods.²⁴ 14

15 More positively, urban mammal and bird habitats are now receiving greater 15
 16 attention from eco-historians and geographers than ever before. Michael Campbell, 16
 17 for instance, sees cityscapes as shared between birds and humans.²⁵ A wide range of 17
 18 birds are attracted to suburban gardens and city centres, either to forage omnivorously 18
 19 on scraps, as with pigeons and gulls, or to exploit nesting sites on tall buildings 19
 20 that resemble cliff faces. Human feeders make a significant intervention for species 20
 21 that are vulnerable in cold weather, and rubbish dumps are an especially attractive, 21
 22 spatially concentrated feeding source for a range of birds and small mammals. 22
 23 As a result, it is possible to document notable successes, where certain animals – 23
 24 hooded crows and magpies are examples – have found urban and peri-urban areas so 24
 25 beneficial that the centre of gravity of their entire distribution has changed.²⁶ Young 25
 26 birds become habituated to this type of environment and show no desire to return to 26
 27 the rural woods and fields of their forebears to seek their living. 27

28 Also under this first division of urban environmental history, we note the 28
 29 considerable amount of research on the 'creation' of nature and the deliberate 29
 30 attraction of species. City parks were thought of in the nineteenth century as 30
 31 important mitigators of then-prevalent diseases such as tuberculosis. Fresh air and 31
 32 the appreciation of trees, plants and selected animal and insect species were seen to 32
 33 be important contributions to the health, education and well-being of responsible 33
 34 citizens. The animals introduced or tolerated were of the non-problematic variety, 34
 35 of course, so parks remained carefully controlled spaces. Smaller versions, that in 35
 36 effect represented landscape gardens in miniature, became increasingly popular 36
 37 in the suburbs from the late nineteenth century onwards. In Britain in particular, 37
 38 middle class householders associated respectability with the greening of the city 38
 39 and they felt deprived if they did not have a lawn and flower beds, with additional 39

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 41 _____ 40
 41 23 Brimblecombe 1988, Mosley 2008, Collins et al. 2008, Luckin 1986, 2000. 41

42 24 Davis 1998. 42

43 25 Campbell 2007, 2008. 43

44 26 Vuorisalo 2010. 44

1 provision perhaps for a cat, a dog, and a children's pet, such as a rabbit or guinea 1
 2 pig. For America, Paul Robbins has analysed the interesting political economy of 2
 3 the lawn-making industry and there have recently been other contributions on the 3
 4 place of nature in suburban gardens.²⁷ 4

5 The clash of human and animal interests may also create friction when 5
 6 wild species from the peri-urban hinterland are attracted to feeding or nesting 6
 7 opportunities in the ever-expanding suburbs. For a transitional period, or longer, 7
 8 there is co-presence and co-habitation in such areas. Birds are mobile and may learn 8
 9 to avoid zones of danger, but day-feeding mammals are relatively soft targets, such 9
 10 as macaques in Singapore, which are culled by the authorities as nuisance animals. 10
 11 Their reported boldness in 'stealing' food and 'invading' gardens is an irritant and 11
 12 their relatively poor image with the public has made them vulnerable.²⁸ In Britain, 12
 13 urban foxes occupy a similar niche, and they have shown a remarkable degree of 13
 14 adaptability in their new environment.²⁹ Public sympathy for foxes is greater than 14
 15 for macaques, but recent stories about a fox attacking babies as they slept indicate 15
 16 that this may eventually wear thin.³⁰ The point here is that 'wildness' appears to be 16
 17 negotiable in some urban ecologies and the attitudes of humans to wild animals are 17
 18 both complex and unpredictable, depending upon the 'reputation' that a species has, 18
 19 including media representations and primal feelings of fear and disgust.³¹ 19

20 The continuing abundance of 'wild' animals in cities at first surprised and then 20
 21 excited ecologists in the twentieth century. Research has expanded exponentially, 21
 22 starting with work in postwar Berlin, London and other European cities and 22
 23 gradually spreading around the world. It is at last possible to say that 'cities and 23
 24 urban agglomerations are now addressed as complex evolving socio-ecological 24
 25 systems'.³² The latest compilation to come to hand is the *Routledge Handbook of* 25
 26 *Urban Ecology*, edited by Ian Douglas and others, which contains 50 state-of- 26
 27 the-art articles. This proves that urban ecology is now a mature participant in the 27
 28 academy, though its historical depth remains limited. 28

29 Urban ecology also has its practical applications. Following a phase of 29
 30 observation, wonder and enchantment, we are now moving into the age of 30
 31 'biophilic cities'.³³ Here, plants and animals are actively encouraged by planners 31
 32 for a number of reasons.³⁴ They are seen as vital for a generation of children 32
 33 who have 'forgotten how to play in the woods' and instead are said to be tied to 33
 34 computer games at home. In car-centred cultures, their parents also need accessible 34
 35 and interesting walks to counter obesity and the other medical and psychological 35
 36 36

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 38 27 Robbins 2007, Head and Muir 2006. 37
 38 38 38

39 28 Yeo and Neo 2010. 39
 39 39 39

40 29 <http://www.thefoxwebsite.org/urbanfoxes/index.html> [accessed Nov. 2010]. 40
 40 40 40

41 30 *Guardian* June 7, 2010. 41
 41 41 41

42 31 Ilicheva 2010. 42
 42 42 42

43 32 Weiland and Richter 2009, Adams 2005. 43
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44 33 Beatley 2011. 44
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44 34 Müller and Werner 2010. 44
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1 disorders that come with inactivity. The regeneration of cities can also be advanced 1
 2 through the renaissance of nature on vacant land, and the re-introduction of urban 2
 3 farms and allotments helps with a reconnection to food production. 3

4 A second major theme in environmental history has been that of the urban 4
 5 metabolism. By this is meant 'how cities utilize material and energy that comes 5
 6 from beyond their borders' and how a form of mediation is achieved between nature 6
 7 and the city.³⁵ This idea has attracted interest on various planes. It is of importance, 7
 8 for instance, to those attempting to calculate the urban material footprints that 8
 9 say something about resource balances and sustainability.³⁶ Sabine Barles and 9
 10 her collaborators in Paris have developed material flow analyses for that city, for 10
 11 instance with respect to nitrogen, and have produced commentaries on exchanges 11
 12 between the city and its surrounding region.³⁷ The organic metaphor implicit in the 12
 13 metabolism approach may be related to bodily circulatory processes, such as the 13
 14 blood or digestion. It may also be theorized as understandings of space in terms of 14
 15 flows, as proposed by Deleuze and Guattari and elaborated, among others, by Maria 15
 16 Kaika.³⁸ Matthew Gandy's vision of the transformation of New York touches on this 16
 17 and he also sees advantages in the related concept of cyborg urbanism.³⁹ 17

18 Urban historians such as Joel Tarr, Clay McShane and Martin Melosi have 18
 19 been prominent in metabolism studies. Their version of this research has been to 19
 20 consider everyday aspects of the urban environment. The themes are wide-ranging 20
 21 but two of the most important are Tarr and McShane's work on horses, which we 21
 22 will call upon in Chapter Four, and Melosi on sanitation.⁴⁰ At first sight, the latter 22
 23 may seem to be less relevant to the present volume but it will be argued in Chapter 23
 24 Two that new ways of seeing nature in the city, which resulted from the 1840s' 24
 25 reappraisal of human and animal wastes, led to a recalibration of society's attitudes 25
 26 to all of its animals. This type of historical urban metabolism research recognizes 26
 27 the sunk costs in socio-economic systems and the technological infrastructures and 27
 28 inertia that lock cities into evolutionary paths from which it is costly to escape.⁴¹ 28
 29 The associated politics of choice and resistance will often be socio-ecological in 29
 30 as much as these technologies are designed to deal with the organic consequences 30
 31 of city life such as sewage and rubbish. 31

32 Food has also been a consideration in urban metabolism studies, for instance 32
 33 in Bill Cronon's work on Chicago, but it is water that has probably attracted most 33
 34 attention in urban metabolism studies and if we also include water-borne sewage 34
 35 systems then here we can show that 'cities are pivotal sites at which the resource 35
 36

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 38 35 Melosi 2010: 10, Kaika and Swyngedouw 2000. 38

39 36 Kennedy et al. 2007, Niza et al. 2009. 39

40 37 Barles 2005b, 2007, 2008, 2009, Billen et al. 2008. 40

41 38 Kaika 2005. 41

42 39 Gandy 2002. 42

43 40 McShane and Tarr 1997, 2003, 2007, 2008, Tarr 1999, Tarr and McShane 2005, 43

44 Melosi 1981, 2000, 2001. 44

41 Monstadt 2009: 1926. 44

1 flows “metabolized” by infrastructures are geographically concentrated’.⁴² Erik 1
 2 Swyngedouw and colleagues have used Marx’s concept of metabolism to explore 2
 3 this nexus of urban natures further.⁴³ Their essential point is that commodities 3
 4 such as water and food, which stand in for our consumption of nature, are socio- 4
 5 metabolically ‘produced’ through networks of power relations in the supply 5
 6 chain. The specific processes of production may be social, political, cultural and 6
 7 economic, and they are linked together in a ‘nested articulation of significance, but 7
 8 intrinsically unstable geographical configurations’.⁴⁴ This networked production 8
 9 process is not socially or ecologically neutral and there are, as a result, always 9
 10 winners and losers. 10

11

12

13 **Animal Histories and Animal Geographies** 13

14

15 Other major strands of thinking about animals have emerged in the humanities 15
 16 and urban history,⁴⁵ and also geography,⁴⁶ without necessarily having an explicit 16
 17 environmental connexion. Common in Science and Technology Studies and 17
 18 human geography but less so in the work of historians, this genre rides under the 18
 19 banner of post-structuralism, although its publications have been so varied, and 19
 20 the intellectual energy so intense, that such a reductionist label seems ludicrous. 20
 21 To enable clarity, but not intended as an agenda statement, the following sub- 21
 22 themes are recognizable. 22

23 The first is ‘animal studies’, which as a field has become rich and varied; 23
 24 so broad in fact that it is impossible to encapsulate other than to say that it 24
 25 is often about human identities and place-making filtered through relationships 25
 26 with animals.⁴⁷ An excellent example is Kay Anderson’s reinterpretation of 26
 27 domestication. Hitherto this was a field in which it seemed that ‘humans are not 27
 28 in the grip of their instincts and senses ... whereas animals are little more than 28
 29 their biology’.⁴⁸ Anderson’s review of this misplaced boundary of humanness 29
 30 and animality showed that the ‘improvement’ of animals through domestication 30
 31 was also implicit in harnessing the energies and regularising the rationality of 31
 32 many human ‘others’, who were racialized and gendered.⁴⁹ Domestication was, 32

33

34 42 Cronon 1991, Swyngedouw 1997, 2004, 2006b, Katko et al. 2010, Melosi 2000. 34

35 43 Swyngedouw 2004, 2006a. 35

36 44 Heynen et al. 2006: 7. 36

37 45 Faure 1997, Hodak 1999, Creager and Jordan 2002, Henninger-Voss 2002, Ritvo 37

38 2002, Fudge 2002b, Pflugfelder and Walker 2005, Mason 2005, Kalof 2007, Kalof and Resl 38

39 2007, Brantz and Mauch 2009, Wolfe 2009, Brantz 2010, Montgomery and Kalof 2010. 39

40 46 Wolch and Emel 1995, 1998, Philo and Wolch 1998, Philo and Wilbert 2000, 40

41 Wolch 2002, Emel et al. 2002, Johnston 2008, Wolch et al. 2003, Wilbert 2009, Emel and 41

42 Urbanik 2010. 42

42 47 Wilbert 2009: 122. 42

43 48 Anderson 1997: 466. 43

44 49 Anderson 1995, 1997. 44

1 then, a politics of bringing various ‘natures’ under control, as defined by core
 2 Enlightenment values. Harriet Ritvo explored similar territory in her discussion
 3 of cattle breeding, pedigree and prize pets, the prevention of cruelty to animals,
 4 rabies, zoos, and hunting.⁵⁰ For her, each of these animal-human encounters
 5 served to reinforce or reproduce existing social hierarchies. In addition, Kathleen
 6 Kete’s perspective on nineteenth-century Paris is that pet dogs were accorded
 7 affective characteristics, such as loyalty and heroism, that gave them some credit
 8 in the transactions of social capital, but this was not available to all dogs in
 9 the city.⁵¹ Jean Baudrillard saw more clearly than most that such animal-human
 10 transactions were asymmetrical: ‘our sentimentality towards animals is a sure
 11 sign of the disdain in which we hold them. It is in proportion to [them] being
 12 relegated to irresponsibility, to the inhuman ...’.⁵²

13 Animal studies have also pioneered understandings of the role of animals in
 14 the past in the making and unmaking of places and landscapes.⁵³ Alice Hovorka,
 15 for instance, finds that chickens have played an important everyday role in
 16 African cities and she claims that ‘understanding urban human-animal relations
 17 is central to explaining urbanization in Africa’.⁵⁴ Her fieldwork was in Gaborone,
 18 where there are 200,000 human inhabitants and 2.3 million chickens. The sector
 19 there is so important economically for working people that the urban planners
 20 have been forced to take a positive view of it and to zone land accordingly. Other
 21 cultural geographers have told the story of rural landscapes through animal-
 22 human entanglements and their approach shows great promise for equivalent
 23 urban histories.⁵⁵

24 In the humanities, there has been the recent development of ‘animality
 25 studies’, sometimes with an historical twist because of its emphasis upon a
 26 canon of literature. American institutions, such as Colorado State University
 27 have been at the forefront.⁵⁶ How is this different from animal studies? Let
 28 Michael Lundblad explain:

29
 30 Animality studies can prioritize questions of human politics, for example,
 31 in relation to how we have thought about human and nonhuman animality
 32 at various historical and cultural moments ... I want to open up a space for
 33 new critical work that might have different priorities, without an imperative
 34
 35

36
 37 50 Ritvo 1987.

38 51 Kete 1994.

39 52 Baudrillard 1994: 134.

40 53 Wilbert 2009: 124.

41 54 Hovorka 2008: 95. For dogs and the ordering of urban social space in South
 42 Africa, see McKenzie 2003.

43 55 See Matless et al., 2005, on otters in the Norfolk Broads and Lorimer 2006 on
 44 reindeer in Scotland.

45 56 <http://animalitystudies.colostate.edu/> [accessed December 2010].

1 to claim the advocacy for non-human animals that runs through much of the 1
 2 recent work in animal studies.⁵⁷ 2

3 3

4 A second departure has addressed the moral histories and spaces of animals, 4
 5 from philosophical studies of ethics to the legal and practical issues of animal rights 5
 6 and advocacy. Pain has been one aspect considered here, for instance in the city 6
 7 cattle markets and slaughterhouses, making them centres of concern for reformers 7
 8 in the nineteenth century, along with campaigning about the relationship between 8
 9 scientific advance and laboratory experiments on animals.⁵⁸ The vivisection 9
 10 debate, for instance, was particularly lively in Britain from the 1870s onwards and 10
 11 was heavily influenced by feminist activism.⁵⁹ 11

12 Third, urban political ecology has recently emerged as a means of relating 12
 13 ecology and political economy together in urban settings. There is some overlap 13
 14 with Swyngedouw's urban water research mentioned above but political 14
 15 ecologists are a broad church and their interest in metaphors such as metabolism 15
 16 and circulation should not be taken for granted.⁶⁰ Perhaps a stronger foundation 16
 17 is the way in which capital found ways to harness the rhythms, instabilities 17
 18 and time challenges of animal biology. The commodification of urban animal 18
 19 wastes described in Chapter Two is testament to how flexible and enterprising 19
 20 this sector was and how it contributed to complex systems of recycling that 20
 21 were very different from the large-scale, factory-based production regimes that 21
 22 followed. 22

23 Another application of political ecology lies in the relationship between 23
 24 nature and the growth of cities.⁶¹ What I mean here is taken-for-granted, dirty, 24
 25 smelly, warm-blooded nature; nature 'in here', not nature as a representation 25
 26 of the sublime pastoral or of the wilderness. Raymond Williams' brilliant 26
 27 book is often quoted as a seminal work in this area but he was interested in 27
 28 the intertwining and dialectical opposition of these categories rather than nature 28
 29 *in* cities, its challenges and erasures.⁶² Even James Winter, who was writing 29
 30 specifically on the environment in the nineteenth century, could find no room for 30
 31 this neglected topic.⁶³ 31

32 What then of the history of urban nature? It is important to note that recent 32
 33 literature is at last providing relevant theoretical frameworks. One strand has been 33
 34 Marxist interpretations such as 'second nature' (Lefebvre) and the 'production of 34
 35 nature' (Smith), where the argument is that what may appear to be natural has often 35
 36 been influenced by human factors, along with nature that has been eliminated or 36

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39 57 Lundblad 2009: 497. 39

40 58 Turner 1980. 40

41 59 Rupke 1987, Mayer 2010. 41

42 60 Keil 2003, 2005. 42

43 61 Benton-Short and Short 2008. 43

44 62 Williams 1973. 44

63 Winter 1999. 44

1 compromised to the extent that it is no longer sustainable.⁶⁴ David Harvey's subtle 1
 2 yet powerful historical materialism takes this logic further and he concludes that 2
 3
 4 all nature is urban nature, for to the extent that systems of production, exchange 4
 5 and consumption have become global, 'distant' natures and everyday urban 5
 6 environments are woven into tight webs of socio-ecological and spatial relations. 6
 7 This does much more than disturb the distinction between nature and society; it 7
 8 also radically reconfigures the terrain – and the goals – of green politics.⁶⁵ 8
 9

10 Political ecologists also have an interest in the contests throughout the 10
 11 nineteenth and twentieth centuries over what kinds of nature should be encouraged 11
 12 or excluded. Urban blood sports such as bull running and cock fighting were 12
 13 controlled in Britain in the early nineteenth century but others, such as rat pits, took 13
 14 longer, and some rural hunting continues right through to the present day.⁶⁶ The 14
 15 Society for the Prevention of Cruelty to Animals was founded in London in 1824 15
 16 and such activism in civil society was not without sympathy in the legislature. In 16
 17 fact there was some commonality with the 'humane' movements for the abolition 17
 18 of slavery and the improvement of working conditions for children. 18

19 Fourth, there is 'posthumanism'. This is a movement of social scientists seeking 19
 20 epistemological innovation through a reconsideration of human and non-human 20
 21 subject positions.⁶⁷ Some have looked to unbundle the diversity of what it is 21
 22 to be 'animal', for instance by pointing to 'social constructions' of difference. 22
 23 This is based on the rejection of essential truths, conditions and identities. 23
 24 Others have challenged the modernist ontological divide between humans and 24
 25 other animals, for instance through a flattening of the idea of separate agencies. 25
 26 One way of achieving this has been to imagine human-nonhuman hybrids that 26
 27 have shared agency, perhaps in 'actor networks' or in 'assemblages', which are 27
 28 mutually constituting collectives.⁶⁸ An example is the horse-drawn vehicle that 28
 29 we will meet in Chapters Three and Four. Apart from a few experiments with 29
 30 steam and electricity as motive power, most omnibuses and carriages throughout 30
 31 the nineteenth century were horse-powered and the combination of animal and 31
 32 machine was so successful that it dominated urban transport around the western 32
 33 world. Many horses would not have existed without urban demand and their 33
 34 survival depended upon their ability, for a few years at least, to pull heavy weights. 34
 35 Such was their indispensability that the faeces they dropped on to the street was 35
 36 tolerated. Horse and vehicle were an animal-machine collective that also required 36
 37 a human driver and all of the connexions that kept the horse fed and the vehicle 37
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39 _____ 39
 40 64 Lefebvre 1991, Smith 2008. 40

41 65 Braun 2006: 218. 41

42 66 Harrison 1973. 42

43 67 See the book series on 'posthumanities' published since 2007 by the University of 43
 Minnesota Press.

44 68 Roe 2009. 44

1 maintained. It is impossible, in this view, to ascribe full agency and capacity to the 1
 2 human actors alone or to see animals or even nature as separate. As a result, the 2
 3 term nature-culture has been coined in recognition of the overlap, the merging, the 3
 4 entanglement, the conjoining of the two.⁶⁹ 4

5 So far this may seem palatable but some posthumanists take their argument 5
 6 much further. An example is the anthropocentric flavour of animal studies in 6
 7 that the ultimate insight is always about society or individual human identity. 7
 8 Posthumanists want recognition of the equivalent sociality of nonhumans and 8
 9 the vitalism of their worlds. For these scholars, the 'lively agencies of bodies, 9
 10 technologies, and places' are important and they have turned for inspiration to 10
 11 the theoretical work of Bruno Latour, Gilles Deleuze and others.⁷⁰ Here they have 11
 12 found a concern for emergent rather than fixed material ontologies. Recent work 12
 13 on animal subjectivities has demonstrated the relevance of this approach, for 13
 14 instance to the interaction of cows and computers or robot milking machines.⁷¹ 14

15 This thought of animals interacting with machines raises the question of 15
 16 the city being a more-than-human context. This is true of all people who wore 16
 17 spectacles to enhance their 'natural' sight, who took medicines to improve the 17
 18 state of their health, and who chose warm clothing in temperate climates. It was 18
 19 also the case for horses in harness or dogs on a leash. All were in a sense hybrids 19
 20 of themselves and whatever technology or organism modified their capacity 20
 21 for living. In the vocabulary of Donna Haraway this made them 'cyborgs' and 21
 22 the cities they inhabited were 'cyborg cities'.⁷² Obviously the word cyborg has 22
 23 added meaning in the twenty-first century, with our ability to produce genetically 23
 24 modified organisms or have medical implants in our bodies, but the concept is 24
 25 also relevant to a posthumanist reading of urban history. If we were take it to 25
 26 its logical conclusion, we might include food and maybe even the microbes that 26
 27 in one way or another have become associated with humans. Zoonotic diseases, 27
 28 for instance, were significant in the toll of morbidity and mortality in nineteenth 28
 29 and twentieth century European cities and deserve an in-depth treatment from 29
 30 posthumanist historians.⁷³ Some of these organisms, particularly those causing 30
 31 disease, have been powerful enough to influence the course of civilizations and 31
 32 even the evolution of the human genome. Our co-evolution with them has been on 32
 33 the basis of co-presence and a sharing of resources. 33

34 One last comment on the potential for posthumanist urban histories of animals 34
 35 relates to the work of Sarah Whatmore. She has carved out new understandings of 35
 36 hybridity through work that ranges from animals used in the arenas of the Roman 36

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69 Jones 2009.

70 Lorimer 2009: 347.

71 Risan 2005, Holloway 2007.

72 Haraway 1991. See also her posthumanist discussion of companion animals.

Haraway 2003, 2008.

73 Atkins 2010, Nimmo 2010.

1 Empire to zoo elephants at the present day.⁷⁴ Although her approach draws upon 1
 2 Actor Network Theory, she goes beyond its limitations and finds plenty of room 2
 3 for a politics of animals. Steve Hinchliffe opens this out into the interrogation of 3
 4 animal presences and absences when he seeks the traces of shy animals such water 4
 5 voles and black redstarts in Birmingham.⁷⁵ Although historians cannot emulate the 5
 6 fieldwork element of this research, the implications of working with traces will not 6
 7 be lost on them. Hinchliffe has already shown the value of vitalist framings in this 7
 8 regard with his call for a rethinking the complex human-nonhuman entanglements 8
 9 of BSE.⁷⁶ In sum, this group of researchers has opened up new perspectives on 9
 10 the ontological politics of urban animals that are relevant right across the social 10
 11 sciences. 11

14 **History–Nature–Animals–Cities** 14

16 Nature for us is not ‘eternal and immutable’.⁷⁷ On the contrary, even the ‘wildness’ 16
 17 of certain urban animals does not mean that they shun the advantages of living 17
 18 in or near humanized landscapes. Nor have cities necessarily degraded existing 18
 19 animal habitats in the way that is sometimes attributed to them. Those in Britain 19
 20 and continental Europe mainly grew from smaller settlements and have not 20
 21 modified a ‘natural’ environment. They were merely an intensification and a 21
 22 scaling-up of already humanized landscapes, where flora and fauna had long since 22
 23 been modified and physical changes initiated to hydrological and biogeochemical 23
 24 cycles. One profound change, though, in the age of tarmac and concrete, was the 24
 25 introduction both of organically sterile areas and of fragmented zones of habitat 25
 26 where biodiversity has sometimes actually increased.⁷⁸ 26

27 As Byrne and Wolch observe, ‘nature suffuses the city’.⁷⁹ This realization 27
 28 means that we can now admit, in retrospect, that seeing cities as ‘unnatural’ was 28
 29 an oversight. It follows that, not only is the meaning of ‘natural’ softening but 29
 30 also in some quarters the nature-culture divide itself has begun to dissolve, or at 30
 31 least is losing its categorizing power.⁸⁰ Studies of urban habitats, urban ecology, 31
 32 urban ecosystems, and urban nature have become possible and even desirable. 32
 33 Cities can now be seen as home – albeit with different mixes of encouraging and 33
 34 discouraging factors – to vast numbers and species of plants and animals. As we 34
 35 have seen, vermin, parasites and microbes can all be viewed as part of such a 35
 36 zoöpolis. Why not? 36

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38 _____ 38
 39 74 Whatmore 2002. 39
 40 75 Hinchliffe and Whatmore 2006, Hinchliffe 2007. 40
 41 76 Hinchliffe 2001. 41
 42 77 Braun 2009: 21. 42
 43 78 Alberti 2009, Mockford and Marshall 2009. 43
 44 79 Byrne and Wolch 2009: 47. 44
 80 Jones 2009. 44

1 It was with these thoughts of uncertainty and complexity in mind that a team of 1
2 scholars approached the topic of 'Animals in the City' at the Eighth International 2
3 Conference of the European Urban History Association in Stockholm in 3
4 September 2006. Three of the chapters in the present book were papers in that 4
5 session and five others are by the participants. In one way or another they pick up 5
6 on themes that have been raised earlier in this chapter, although we make no claim 6
7 to a comprehensive set of answers to the challenges raised there. Our disciplinary 7
8 backgrounds vary but most of us have associations with either history or historical 8
9 geography. This gives our stories a greater epistemological coherence than is true 9
10 of many edited collections. 10

11 The opening chapters, Two to Four, are closely related. They look at working 11
12 and productive animals that lived and died in cities in the nineteenth century, using 12
13 mainly the case study of London. The purpose overall is to argue that their presence 13
14 yields insights into evolving contemporary understandings of the category 'urban' 14
15 and therefore what made a good city. Chapter Two begins with an investigation 15
16 of dirt, waste and the role of animal 'nuisance' as a catalyst to both medical and 16
17 sanitary theories of the environment. There is plenty of evidence, it seems, that 17
18 cities such as London and Paris continued to host food-producing livestock, from 18
19 pigs to milch cattle, in large numbers and the resulting smells and faeces were only 19
20 brought under control in the second half of the century by concerted legislative 20
21 and regulatory action. It was the deliberate rupture of this function, coupled, in 21
22 the second and third decades of the twentieth century, with the decline of horse- 22
23 powered transport, that started moves towards the cleansed and de-animalized 23
24 'modern' city that was a goal for many. 24

25 A related strand of argument in Chapter Two is that the sewerage of cities from 25
26 the mid nineteenth century onwards weakened another link with the countryside. 26
27 This was the circulation of nutrients, which for centuries had seen animal manure 27
28 and human night-soil transported to peri-urban fields and, in return, vegetables and 28
29 animal fodder were marketed in the city. A pinch point was the failure of sewage 29
30 irrigation to be successful on a large scale, meaning that the disposal of all forms 30
31 of human waste became a matter of municipal management rather than of profit. 31
32 This was crucial to a growing perception by the local state of 'city versus country' 32
33 in an era when it increasingly had the power and the capacity to shape urban 33
34 futures. The chapter gives a name to this ontological re-mastering and parting of 34
35 the ways: the Great Separation. 35

36 Chapter Three takes the recycling argument further. It identifies around London 36
37 a 'manured region' where much of agricultural prosperity was sustained by animal 37
38 dung in the nineteenth century. The radius of this was short because of the expense 38
39 of carting a heavy, low-value, waste product, but within the favoured zone there 39
40 was intensive horticulture and hay production. As the numbers of urban animals 40
41 declined, so this system of sustainable fertility was undermined. A similar fate 41
42 awaited the manured regions of Paris, Berlin and New York, although each city 42
43 had its own pace of change related to factors such as attitudes to the presence of 43
44 animals in urban areas and the technologies of disposing of human waste. 44

1 There has been surprisingly little about dead animals in urban history. 1
 2 Slaughterhouses have properly received attention but the bellowing of dying beasts 2
 3 has made us deaf to what happened next. Economic historians have examined the 3
 4 meat trade and leather but the other ‘blood and guts’ by-products have been under- 4
 5 researched. Chapter Four reminds us that animals made a major contribution, 5
 6 even when dead. Their traces were everywhere. There were many urban industries 6
 7 involved in processing the by-products of animal carcasses, not just the meat but 7
 8 everything from blood to the use of fat in candles. The spatial patterning of these 8
 9 activities followed a particular logic, notably in south London, where the district 9
 10 of Bermondsey has a strong claim to the title ‘animal city’. It was not only home 10
 11 to live productive animals and to slaughter-houses but it also had the largest single 11
 12 concentration in Britain of employment in processing the body parts of cattle and 12
 13 sheep. Its many tan yards and leather factories were internationally renowned for 13
 14 the quantity of their output, and animals were undoubtedly the crux of the local 14
 15 economy for centuries. The smells and pollution would have been an unbearable 15
 16 nuisance anywhere else in London, but in Bermondsey they represented a job 16
 17 opportunity and complaints were muted, proving that attitudes to the Great 17
 18 Separation were differentiated and that the ‘purification’ of the urban environment 18
 19 is likely to have been strongly contested in some districts. 19

20 Chapter Five stays with the dead animals theme. Here Paul Laxton gives a 20
 21 close reading of disputes in nineteenth-century Edinburgh about diseased meat: 21
 22 how common it was and its implications for human health. What emerges is a 22
 23 drama of personalities. The veterinarian, John Gamgee, and city Medical Officer 23
 24 of Health, Henry Littlejohn, were critics of a meat trade that sought to profit from 24
 25 a poor quality product. Against them were the vested interests of the meat trade, as 25
 26 might be expected, but also the veterinarian, William Dick, who was sceptical of 26
 27 the danger of zoonotic disease for consumers. This is not just a case study of the 27
 28 clash of interests but also a penetrating insight into the significance of individual 28
 29 agency at the local level. In the absence of the quality assurance systems that are 29
 30 taken for granted today, consumers relied for protection upon the enthusiasms of 30
 31 local actors and their ability to manipulate the political forces manifest locally. 31

32 Chapter Six, by Sabine Barles, is about ‘undesirable nature’ in nineteenth- 32
 33 century Paris. A discussion of nuisances illustrates similarities with London in 33
 34 terms of the survival of animals and animal-related trades in the centre of the city 34
 35 until the end of the century. And the smells were like London, as was the production 35
 36 of milk and the slaughter of animals. But Paris is much better documented than 36
 37 London, not only having octroi records of imports into the city, but also a greater 37
 38 appetite for surveys and statistics about animals, their by-products and their 38
 39 wastes. This chapter should be read alongside Professor Barles’ other work, which 39
 40 together provides an example to us all of how history, with or without the animals, 40
 41 can help us to understand the evolution of the present environmental contexts and 41
 42 problems of our large cities.⁸¹ 42

43 _____ 43
 44 81 Barles 1999, 2001, 2002, 2005a, 2005b, 2006, 2007, 2008, 2009. 44

1 Takashi Ito, in Chapter Seven, argues that animal spectacles in nineteenth- 1
 2 century London influenced contemporary interpretations of the urban experience. 2
 3 London Zoo is used as a case of this public animal world. Its role as an animal 3
 4 space is first of all evaluated by comparison with the sites of other animal spectacles 4
 5 in the city. Then the zoo is contrasted with Smithfield, the infamous livestock 5
 6 market, in order to highlight the issue of animal inclusions and exclusions. Dr Ito 6
 7 also discusses the boundary between humans and animals, and the reactions to 7
 8 the zoo animals that resisted their confinement or transgressed their expected 8
 9 roles. Overall, the essay explores how the geographical transformation of 9
 10 London influenced popular sensibilities about animal life, and how this affected 10
 11 the emergence of different 'animal spaces' in the city. The zoo's success was a 11
 12 function of its location in Regent's Park and its portrayal as a scientific institution 12
 13 rather than a tawdry menagerie. 13

14 Chapter Eight, by Andrea Gaynor, is devoted to the contested spaces of 14
 15 suburbia in Australia in the period 1890–1990. Back-yard chickens, or 'chooks' as 15
 16 they were known, are a good example, first of the everyday acceptance of small 16
 17 livestock in these cities, as a 'natural' presence and, second, of the needs of ordinary 17
 18 working people to find additional income and food sources, for instance during the 18
 19 economic depression of the 1930s. In one Melbourne suburb in the late nineteenth 19
 20 century as many as two-thirds of households kept chooks but this proportion fell 20
 21 steadily in most Australian cities in the twentieth century. One reason for the 21
 22 eclipse of household fowls was the introduction of regulations that addressed 22
 23 health concerns about the proximity of residences to farm animals. This was in a 23
 24 similar spirit to the nuisance- and health-related legislation and local by-laws in 24
 25 Britain. A second factor was the 'modern outlook' that emerged in the twentieth 25
 26 century, affecting everything from the images in home-making magazines to the 26
 27 zoning mentality of local councils about the proper place of food production, 27
 28 which should be separated from residential districts. By the 1950s and 1960s, 28
 29 many of the interviewees for this study were pursuing other leisure activities and 29
 30 women's increasing participation in the workforce meant that they had less time 30
 31 and inclination to look after chickens. Overall, the chooks are a convenient vehicle 31
 32 for telling the story of what makes a good city and a good citizen. 32

33 The last word, in Chapter Nine, goes to Philip Howell. He has written about 33
 34 urban dogs before, for instance in his classic paper 'Flush and the *Banditti*', which 34
 35 is about dog stealing.⁸² On this occasion he looks at the problem of the public dog 35
 36 and produces an account that enlightens us on the nature of space in Victorian 36
 37 and Edwardian London. The first thread is the call for dogs to be muzzled in 37
 38 public because of the fear of rabies. Although this disease was never so common 38
 39 in Britain as on the Continent, it nevertheless produced reactions that were close 39
 40 to hysteria. We might be forgiven for taking the second theme, the increasing use 40
 41 of the dog leash, as a similarly disciplinary measure but Dr Howell finds good 41
 42 reasons to interpret it differently as means by which owners and their pets were 42

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44 82 Howell 2000, 2002.

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1 able to create an altogether more positive public response and therefore carve 1
2 out spaces in which particular behaviours were positively encouraged and even 2
3 celebrated. 3

4 This is a book of selected animal case studies of nineteenth- and twentieth- 4
5 century cities. As specified in the original conference, the emphasis is upon 5
6 European cities, including Perth and Melbourne in Australia, which were heavily 6
7 influenced by British values and by British immigration. We acknowledge that 7
8 our insights are therefore limited to this narrow context and to a number of animal 8
9 species. An extension of our enterprise might have included chapters on back- 9
10 yard pigs, on ‘nuisance animals’ such as rats or pigeons, and it would have been 10
11 particularly valuable to have further explorations of the concept of wildness, either 11
12 in semi-domesticated species such as cats or the shy mammals of which so little 12
13 trace is visible. Parasites, fish and microbes are other absentees but the point that 13
14 we have raised is that there are so many participants in animated cities that no 14
15 single compendium could ever be comprehensive. 15

16 Our collective voice in this book is that of the urban history literature rather 16
17 than the more theory-intensive animal geography that is becoming influential, or 17
18 even the environmental history that has been so prominent in America. This has 18
19 given us the scope to develop arguments based upon the extensive use of archival 19
20 source materials. These are much richer than has perhaps been imagined hitherto 20
21 and great potential remains for further work. As mentioned earlier, historians often 21
22 deal in traces, and we think that for animated cities these legitimately include 22
23 the manure of live animals and the by-products of dead animals. Together these 23
24 are departures from the existing literature, along with an interest in the cultural 24
25 politics of accessories such as muzzles, leashes, cages and chicken coops. 25

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