**Supplementary Materials: S1.** Background information on use of soil improvers and chemicals on allotments included in the NABS study. (All percentages reported are of the total number of gardeners in the study (n = 43)). A share of 28% of gardeners reported use of chemicals on their gardens; pesticide sprays (5%), slug killers (9%), herbicide treatments (9%), fungicide treatment (2%) and chemical fertiliser (5%). Five percent used chemical fertiliser and pesticide spray, 2% used herbicide and fungicide and 5% used both metaldehyde and ferric phosphate slug killer. Gardeners using pesticide either used it once a year or when needed between June and September. Those using slug killer reported using it either once a month or three times a year. Herbicides were applied twice a year, fungicides only in spring, and chemical fertiliser once a week in the season between June and September. For soil improvement, 37% of gardeners reported adding compost, 70% manure and 70% soil improver. Where the compost source was specified 26% used "homemade" compost, 7% purchased it from a garden centre and 11% purchased it from the local authority or allotment association. Manure sources were either not specified (12%) or the allotment association (14%). Seven percent of gardeners used cow manure, 40% used horse manure. Reported soil improver sources were the local authority (9%) and the allotment association (5%). Compost and manure were usually added once a year (both 47%), alternatives being every two years or one to two years (4% and 17% for compost and manure, respectively), every two years or two to three years (2% and 19%), or with every new crop (2% manure only) or growing season (2% both). Soil improver was usually added every two to three years (7%) alternatively with each new crop (2%). Other natural soil amendments used were "poultry concentrate" (5%) "blood, fish and bone" (5%), stables straw (2%), biochar (2%) and rock dust (2%). Specific details on each of the allotments (1, 2 and 3) and the sampled plot (X.1) invest

**Table S1.** Specific details on the use of chemicals, soil improvers and other common activities at urban agricultural sites (UAS) for each of the soils investigated in this study.

	Chemical / Pesticide			Pesticide  Compost/ Soil Improver/ Manure  Compost/ Soil Improver / Manure  Compost/ Soil Improver / Manure  2  3					r / Manure	h	o poultry ave free ccess to	Bonfires				
	D = description F = Frequency T = time period				M = material S = source		M = material S = source			M = material S = source				soil?	Held on Site?	old window
Soil Sample				F = Frequency			F = Frequency			F = Frequency			Y= yes N = No			frames on site?
				.,			.,			.,						
	D	F	T	M	S	F	М	S	F	M	S	F		species		
1.1				compost	garden centre	annually	manure	horse	2x year	Soil improver	garden centre	annually	N		none	none
1.2	weedol	2x year	10 years	manure	horse	annually	Straw	Stables	annually	Compost	Homemade	annually	Y	hen	frequent	a few

	N/A			manure	horse	annually	Poultry Concentrate Blood, fish		annually	Compost	homemade	annually	Y	hen		
1.3							and Bone								frequent	unknown
							Poultry  Concentrate									
	N/A			manure	horse	annually	Correctinate		annually	Compost	homemade	annually	Y	hen		
							Blood, fish									
1.4							and Bone								frequent	unknown
1.5	Roundup	2x year	one spraying	rock dust	rock dust	annually							N		unknown	unknown
2.1				manure	allotment association	1-2x year							N		a few	a few
2.2				compost	homemade	annually	manure	allotment association	annually				N		a few	a few
				compost	homemade	throughout growing	manure	chicken	throughout growing				N			
2.3						season			season						none	none
3.1													N		a few	a few
3.2				unknown	garden centre								N		a few	unknown
3.3				unknown		annually							N		a few	a few
3.4	miracle grow	1x week	june - sep	soil improver	council	2 years ago	compost	garden centre	2-4 years	manure	local	annually	N		a few	a few

	Bug	when			homemade	annually				
	spray	needed								ĺ