

Results of Soil Tests comparing Arsenic and Lead contamination.

Tested by students from Sheffield University Department of Plant and Animal Sciences.

Location	Compost Leaf mould Manure	Code	Arsenic mg/Kg		Lead mg/kg	
			Value	Significance	Value	Significance
Crookes Quarry allotments		CQC	19.5		275	
		CQL	3		215	
		CQM	7		195	
		CQ20	30		470	
		CQ20A	36		388	
		CQ20L	40.5 *		376	
		CQ23 LEAKE	33		472	
		CQ24	52 **		428	
		CQ36	31		403	
		CQ37	30		319	
	CQ37G	22.5		336		
Crocksmoor Community Centre		CC1	32		1095 #	
		CC2	35		207	
		CC3	35.5		1361 ###	
Grimesthorpe allotments		G1	44 *	260		
		G2	31.5	206		
Hagg Lane allotments		HA64		*		
		HA96	39		125	
Heeley City Farm		HE1	26.5		185	
		HE2	39.5		173	
Highcliffe allotments		H191	42 *	263		
		H199	44 *	250		
Marsh Lane allotments		MA1	36	359		
		MA2	41	521 #		
Meersbrook allotments		ME4	46 *	422		
		ME8	37	289		
		ME26	43.5 *	312		
		ME135	37	288		
		ME223	29.5	224		
		ME276	41.5 *	285		
		ME293	35.5	439		
	ME296	46 *	310			
Morley Street allotments		MO1	47.5 *	267		
		MO2	52 **	299		
		MO98	57.5 **	419		
		MO98a	59.5 **	216		
Ponderosa		P1 -T	59.5 **	1287 ###		
		P2	24.5	104		
		P3	56 **	547 #		
		P4	27	120		
		P5	40.5 *	116		
Rivelin Valley allotments		R1		*		
		R2	25.5	650 #		
Unstone Grange		U1	30	161		
		U2	43 *	260		
		U3	43 *	195		
		U4	38	1741 ####		
Whitley Hall		WA	52.5 **	234		
		WD	41	236		
		WE	39	387		
		WP	22.5	231		
Tapton Experimental Gardens Broomhill		Tapton e	78.5 ****	824		
		Tapton f	69 ***	838 ##		
		Rock phosphate	212 *****	50		
	Seaweed	4	40			

and * samples exceed the safe levels 40 mg/K Arsenic & 500 mg/K Lead
 Both are common except in artificially created soils and the bulky organic matter which created them.
 Acid conditions mobilise lead, whereas Arsenic is more available in alkaline soils.
 Plants which feed by osmosis, like brassicas, are more likely to accumulate metals.