

Results of Soil Tests comparing Arsenic and Lead contamination.

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

Crookes Quarry allotments	Compost Leaf mould Manure	CQC CQL CQM	Arsenic mg/Kg	Lead mg/kg
			19.5 3 7	275 215 195
		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.