

Supplementary Information

Trace metal contamination in community garden soils across the United States

Maeve Malone and Kabindra M. Shakya*

*Corresponding Author:

Kabindra M. Shakya

Department of Geography and the Environment

Villanova University

800 E Lancaster Avenue, Villanova, PA 19085, USA

Email: kabindra.shakya@villanova.edu

Table S1: Trace Metal Soil Testing Sites Across the United States

Location	Lab Name	Test Name	Heavy Metals Measured	Cost	Link
Ithica, NY	Cornell Nutrient Analysis Laboratory	2021 Toxic Metals and Trace Elements	As, Ba, Be, Ca, Cd, Co, Cr, Cu, Fe, Li, Mg, Mn, Mo, Ni, P, Pb, S, Se, Sr, Ti, V, Zn	\$30	https://www.css.cornell.edu/cnal-forms/CNAL_Form_S.pdf
Portland, OR	A&L Western Laboratories Inc.		Zn, Mn, Fe, & Cu	Call to inquirer as prices change	https://al-labs-west.com/soil-analysis/
Fort Collins, CO	Colorado State University: Soil, Water, and Plant Testing Laboratory	S1	Zn, Mn, Fe, & Cu	\$40	https://agsci.colostate.edu/divi-soiltestinglab/wp-content/uploads/sites/140/2023/02/soil-lab-crop-form-test-codes-prices-revised-10142022-fillable.pdf

Fort Collins, CO	Colorado State University: Soil, Water, and Plant Testing Laboratory	S8	As, Pb, Mo, Cr, Se, & Cd	\$140	https://agsci.colostate.edu/soiltestinglab/price-list/
State College, PA	Penn State Agricultural Analytical Services Lab	Total Sorbed Metals Test	Ca, Cu, Pb, Ni, Cr, & Zn	\$90	https://agsci.psu.edu/aasl/soil-testing/environmental
State College, PA	Penn State Agricultural Analytical Services Lab	Total Sorbed Metals Test II Plus Mercury	Ca, Cu, Pb, Ni, Cr, Sn, As, Hg, Mo, & Se	\$160	https://agsci.psu.edu/aasl/soil-testing/environmental
Amherst, MA	Umass Amherst Soil and Plant Nutrient Testing Laboratory	Total Sorbed Metals Test	Pb, Ni, Cu, Cd, Cr,	\$55 *As, Se, & Mo can also be tested with an additional \$5 charge for each	https://ag.umass.edu/services/soil-plant-nutrient-testing-laboratory/ordering-information-forms
Newark, DE	University of Delaware: Delaware Soil Testing Program	Heavy Metal Screening Test	As, Cd, Cr, Ni, Pb, Cu, and Zn	\$30	https://www.udel.edu/canr/cooperative-extension/environmental-stewardship/soil-testing/
Orono, ME	University of Maine Analytical Lab and Maine Soil Testing Service	Standard Soil Test	Cu, Fe, Mn, & Zn	\$18	https://umaine.edu/soiltestinglab/home/prices/
Blacksburg, VA	Virginia Tech Soil Testing Lab	Routine Soil Test Package	Zn, Mn, Fe, & Cu	In state: \$10 Out of state: \$16	https://www.soiltest.vt.edu/
Omaha, NE	Midwest Laboratories	S4	Zn, Mn, Fe, & Cu	\$9.66	https://midwestlabs.com/agriculture
Columbia, MO	University of Missouri Soil and	Zn, Mn, Fe, & Cu	Zn, Mn, Fe, & Cu	\$8.50	https://extension.missouri.edu/programs/soil-and-plant-testing-laboratory/spl-submit-samples/spl-tests-fees

	Plant testing Laboratory				
Columbia, MO	University of Missouri Soil and Plant testing Laboratory	Heavy Metals Package	Cd, Co, Mo, Ni, & Pb	\$30	https://extension.missouri.edu/programs/soil-and-plant-testing-laboratory/spl-submit-samples/spl-tests-fees
Columbia, MO	University of Missouri Soil and Plant testing Laboratory	Trace element package	As, Cr, & Se	\$25	https://extension.missouri.edu/programs/soil-and-plant-testing-laboratory/spl-submit-samples/spl-tests-fees
Edinburg, TX	TPSL	Customizable Heavy Metals Test - For Soils or Solids	Choose 7 heavy metals	\$70	https://www.tpslab.com/store/Heavy-Metal-Testing-c58347011
Hartwell, GA	University of Georgia Extension Office	S2	Mg, Zn, Mn, Fe, Cu, Ni, Pb, Cd, Cr, Mo	\$13	https://extension.uga.edu/county-offices/hart/agriculture-and-natural-resources/testing-services.html
St. Paul, MN	University of Minnesota Soil Testing Laboratory	Lead test/Trace elements test	Pb, Mg, Ca, Fe, Zn, Cu, & Mn	\$8-42	https://soiltest.cfans.umn.edu/testing-services/lawn-garden
Raliegh, NC	North Carolina Department of Agriculture and Consumer Services	Soil test for heavy metals	As, Cd, Cr, Pb, Ni, Se	\$25	https://www.ncagr.gov/agronomi/fees.htm
El Segundo, CA	Wallace Laboratories	Standard Agriculture Soil Solubility Analysis	All 15 non-essential trace metals such as Pb, As, Cd, and more	\$90	https://wllabs.com/submit-samples/