data homogenization processing summary and QC check results: Calhoun

notes included with key file: Var long source var var notes location Google Directory Calhoun location Network (e.g. LTER, CZO, network CZODIRT, NutNet, etc) CCZO location Site code (e.g. LUQ) or name site code Calhoun CZO location Location name location name location Bibliographical Reference bibliographical reference This is the most recent publication; note that data on soil characteristics reach back to 1957 and are published in many outlets, some cited in this recent one. location Digital Object Identifier (DOI) doi number This is the most recent Number publication; note that data on soil characteristics reach back to 1957 and are published in many outlets, some cited in this recent one. location Depth to Water Table depth water Greater than 5m profile Experimental Level 1(top L1Not really watershed, but level) research area Treatment 1 level tx L1 Hardwood refers to old-growth profile hardwood forests, pine refers to regenerating forests after long-term cultivation, and cultivated means under the plow since early 1800s profile $Treatment_2_level$ tx L2 Not really a treatment, but individual feature of each sampling location profile Treatment 3 level tx L3 Not really a treatment, but individual feature of each sampling location profile $Treatment_4_level$ tx L4 Dominant species; not really a treatment, but individual feature of each sampling location profile Observation Date observation date Note that excel automatically corrects two-digit months and days to single digits lyr 15n Values should be used with profile Bulk Layer d15N caution, especially for subsoils where [SON] was lower than ideal for quantification via EA. note that "var" is missing here profile Layer middle layer_mid profile Soil pH CaCl2 ph cacl 2 g fresh weight soil, 10 mL

ph_h2o

profile

Soil pH in water

salt solution

water

2 g fresh weight soil, 10 mL

source	Var_long	var	var_notes
profile	Land Cover Category	land_cover	note that all sites are forested except those labeled as cultivated in Treatment 1 level "landcover"; I select forest here because it represents the
profile	Latitude	lat	potential vegetation. W. Wieder duplicated columns to get lat-lon data for
profile	Longitude	long	sites (also used for plot ID) W. Wieder duplicated columns to get lat-lon data for sites (also used for plot ID)

files processed:

type	filename
provided data	Calhoun CZO data.csv
homogenized data	Calhoun CZO data_HMGZD

variable conversion

source	var	Var_long	given_unit	$target_unit$	factor	varNotes
profile	lyr_soc	Bulk Layer Organic Carbon (CN analyzer) concentration, inorganic C removed or not present	percent	ug g-1	1e-04	converted
profile	lyr_n_tot	Bulk Layer Total Nitrogen concentration	percent	ug g-1	1e-04	converted
location	depth_water	r Depth to Water Table	m	m		NOT converted
profile	layer_mid	Layer middle	cm	cm		NOT converted

QC results: location data

location data checks passed

QC results: profile data, data range

profile data range checks passed

QC results: profile data, data type

profile data type checks passed