

data homogenization processing summary and QC check results: NutNetJoined

notes included with key file:

source	Var_long	var	var_notes
location	Google Directory		NutNetJoined
location	Network (e.g. LTER, CZO, DIRT, NutNet, etc)	network	NutNet
location	alignment notes for profile data 1	align_1	Align by site_code & plot
location	alignment notes for profile data 2	align_2	Align by site_code & plot
location	number of treatments	number_treatments	also fenced plots + managed, burned, & grazed
profile	Treatment_2_level	tx_L2	site level characterization for nutnet
profile	Treatment_3_level	tx_L3	site level characterization for nutnet
profile	Treatment_4_level	tx_L4	site level characterization for nutnet
profile	Treatment_5_level	tx_L5	site level characterization for nutnet
profile	Observation Date_1	observation_date_1	Year cover data was taken
profile	Layer Top	layer_top	ww added this column based on nutnet protocols
profile	Layer Bottom	layer_bot	ww added this column based on nutnet protocols
profile	Calcium	ca	Exchangeable (measured by Melich-3)
profile	Magnesium	mg	Exchangeable (measured by Melich-3)
profile	Potassium	k	Exchangeable (measured by Melich-3)
profile	Sodium	na	Exchangeable (measured by Melich-3)
profile	Total Fe (HCl)	fe_HCl	Exchangeable (measured by Melich-3)
profile	Aluminum	al	Exchangeable (measured by Melich-3)
profile	Extractable Phosphorus_1	p_ex_1	changed from ppm to mg/kg, so unit conversion will work.
profile	Site code (e.g. LUQ) or name	site_code	WW duplicated site_code to get this to work in shiny
profile	aboveground biomass	agb	We scale up from the two, 0.1 m2 clip strips taken in each plot (multiplying by 5).
profile	root biomass	bgb	These are live roots

files processed:

type	filename
provided data	nnCombinedDensityRoots

type	filename
homogenized data	nnCombinedDensityRoots_HMGZD

variable conversion

source	var	Var_long	given_unit	target_unit	factor	varNotes
profile	p_ex_1	Extractable Phosphorus_1	mgP/g	mg kg-1	0.001	converted
profile	agb	aboveground biomass	g m-2	gDM m-2	0.5	converted
profile	clay	Clay	%	percent		NOT converted
profile	lyr_n_tot	Bulk Layer Total Nitrogen concentration	%	percent		NOT converted
profile	lyr_soc	Bulk Layer Organic Carbon (CN analyzer) concentration, inorganic C removed or not present	%	percent		NOT converted
profile	sand	Sand	%	percent		NOT converted
profile	silt	Silt	%	percent		NOT converted
profile	layer_bot	Layer Bottom	cm	cm		NOT converted
profile	layer_top	Layer Top	cm	cm		NOT converted
profile	bgb	root biomass	gDM m-2	gDM m-2		NOT converted
profile	map	Mean Annual Precipitation	mm	mm		NOT converted

QC results: location data

location data checks passed

QC results: profile data, data range

var	min	max	minValue	maxValue	error
bd_samp	0.02283	1.551	0.1	2	out of range

QC results: profile data, data type

profile data type checks passed