Title	NutNet plots Silwood Park		
General metadata	T		
Abstract	The Nutrient Network (NutNet) is a cooperative experiment consisting of more than 130 sites dominated by herbaceous plants and distributed around the globe. One the most important impacts of human activity on herbaceous ecosystems is the application of fertilizers and the alteration of grazers-plant interactions. To study the effect of these activities in plant communities the experimental design of each site consist of plots treated with unique fertilizer combinations and fencing to exclude aboveground mammalian vertebrates. The experimental design and data collection follow the same protocols in all participating sites allowing global analyses that aim to: 1. Understand the relationship between productivity and diversity 2. Determine the effect of nutrients in plant production and diversity 3. Understand how grazers and fertilization control plant biomass, diversity, and composition This project started in 2007 and is hosted by the Department of Ecology, Evolution, and Behavior at the University of Minnesota. The experimental sites at Silwood Park are coordinated by Professor Mick Crawley, and Dr. Catalina Estrada Montes and supported by the Department of Life Sciences at		
	Imperial College		
Keywords	Nutrient Network		
Links	https://nutnet.org/ https://www.imperial.ac.uk/silwood-park/research/silwood-lte/nutnet/		
Is this part of a larger study?	Yes. Silwood Park includes two field sites of the Nutrient Network: Heronsbrook and Rookery		
Individual: Primary contact	Mick Crawley		
Position	Emeritus Professor of Plant Ecology		
Organization	Department of Life Sciences, Imperial College London		
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Individual: Associated parties	Catalina Estrada Montes		
Position	Ecological Analyst and Facility Manager		
Address	Silwood Park, Buckhurst Road, Ascot, Berkshire SL5 7PY. United Kingdom		
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Phone	+44(0)2075942217		
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Individual: Associated parties	Peter Wilfahrt		
Position	NutNet Project Coordinator		
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Organization	Department of Ecology, Evolution, & Behavior, University of Minnesota			
Phone				
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Funding	Department of Life Sciences, Imperial College London			
Data and states and				
Data set status and accessibility				
Status	Ongoing			
Latest update	November 2023			
Latest archive date	November 2023			
Metadata status	November 2023			
Accessibility				
Storage location and	"Research group space: SilwoodLTE", Imperial College London, ICT			
medium	department			
Usage rights	Open access			
- 5450 11511th	Open access			
Geographic metadata				
Geographic description	The study site is Silwood Park Campus from Imperial College London,			
	Buckhurst Road, Ascot, Berkshire SL5 7PY, United Kingdom. Silwood Park campus, with 78 ha, contains acid grasslands, scrubland, ancient woodlands and few decades old oak-dominated woodlands. Silwood Park experiences an average total annual rainfall of 700 mm with little seasonal pattern (1987-2021). Mean hourly temperature is 10.2 °C with mean max of 23 °C in July and mean min of 1.5 °C in January (1987-2021).			
	Plots are in mesic grassland, at ~60 msnm elevation.			
	30 plots in two areas			
	Heronsbrook (hero.uk)= Heron's Brook Meadow			
D 1' 1' 1'	Rookery (rook.uk) = Rookery slope			
Bounding coordinates	For plot location refer to file: Nutnet_location.csv			
Y ,*, 1	Heron's Brook Meadow			
Latitude	51.413702			
Longitude	-0.64140469			
UK National grid	CIT			
Square	SU			
Easting	94579			
Northing	69173			
	Rookery slope			
Latitude	51.408527			
Longitude	-0.64553931			
UK National grid				
Square	SU			
Easting	94302			
Northing	68593			
Temporal metadata				

Temporal description	Application of nutrient treatments has been done annually in both sites since 2008.
	Data of aboveground standing biomass and percent cover has been collected from 2008 to 2023.
	Specifically, percentage of cover of each plant species, bryophytes and bare ground in each plot is available for Heronsbrook for 2008, 2010 to 2013, 2016, 2021-2023 and from Rookery from 2008, 2010 to 2013 and 2016 (files: NUTNET_heronsbrook_cover.csv and NUTNET_rookery_cover.csv). Data of aboveground biomass separated by functional groups (dead organic matter, bryophytes, graminoids, forbs, legumes, and woody plants) is available
	for Heronsbrook from 2009 to 2012 and 2023 and for Rookery from 2009 to 2012 (files: NUTNET_heronsbrook_biomass_groups.csv and NUTNET_rookery_biomass_groups.csv).
	Data of aboveground biomass measured for each plant species, bryophytes and dead organic matter is available for both sites from 2009 and 2010 (files: NUTNET_heronsbrook_biomass.csv and NUTNET_rookery_biomass.csv).
Begin	2007
End	Ongoing
Taxonomic metadata	
Taxonomic authority	
Туре	National Biodiversity Network
Author	United Kingdom Species Inventory
	UKSI
General Information	
Taxonomic level:	Bryophyta
Phylum	
Taxonomic level:	Angiospermae
Taxonomic level:	Table: NUTNET_Taxa
Species	
Methods metadata	
General experimental design	General methodology adapted from NutNet protocols and templates documents (http://nutnet.org/methods).
	The core experiment is a completely randomized block design with three blocks (A, B, C) and 10 treatments per block $(1 \text{ to } 30)$ which results in three replicates per treatment per site $(N = 30 \text{ total experimental units})$.
	Each experimental unit is 5 x 5 m in size, with the experimental units separated by at minimum 1-m walkways. In the field 5 x 5 m plots are marked permanently with iron rods located in the four corners of the plot.
	Treatments consist of herbivore exclusion and the addition of three nutrients (nitrogen, phosphorus and potassium) in an 8-treatment combination design. NutNet treatments (0=control, 1=nutrient/cage added). A coloured iron rod on the northwest corner of each 5 x 5 m plot indicates the treatment received. Colour codes for each treatment appear in table PLOTTREAT
	TABLE: PLOTTREAT Plot N P K Exclosure Treatment Rod colour

(Block						code
A/B/C)						
1/11/21	0	0	0	0	none	white
2/12/22	0	0	0	1	none_fence	white
3/13/33	1	0	1	0	NK	yellow-red
4/14/24	1	1	0	0	NP	blue-red
5/15/25	0	1	1	0	PK	yellow-blue
6/16/26	1	1	1	1	NPK_fence	grey
7/17/27	0	1	0	0	P	blue
8/18/28	1	0	0	0	N	red
9/19/29	0	0	1	0	K	yellow
10/20/30	1	1	1	0	NPK	grey

Minerals have been applied annually during the first weeks of April since 2008

N: Ammonium nitrate (NH₄NO₃) or prilled urea (CO(NH₂)₂) at 144 kg ha⁻¹ year⁻¹

K: Muriate of potash (KCl:NaCl) at 224 kg ha⁻¹ year⁻¹

P: Triple superphosphate (Ca(H2PO4)2·H2O) at 35 kg ha⁻¹ year⁻¹

Entire 5 x 5 m plots are caged to exclude grazing herbivores (rabbits and deer). Caged plots receive NPK or no-nutrient treatments.

Data collection

Core sampling includes <u>aboveground standing biomass</u> (sorted to at least three functional groups) and percent cover of all plant species

Aboveground standing biomass: estimated destructively by clipping at ground level all aboveground biomass of individual plants rooted within two 10 x 100 cm strips. For each strip the standing crop is separated into plant species, dead biomass and bryophytes. Sometimes plants are separated only in species groups: 1. graminoids (grasses, sedges, rushes), 2. forbs (legumes and non-leguminous herbs), 3. woody growth. All biomass is dried at 60°C for 48hrs prior to weighing to the nearest 0.01g. Above standing biomass is reported as dry weight m⁻². In 2023 survey legumes were separated from other forbs.

year	subplot	section
2009-2012	NA	NA
2023	b	ii

^{*}NUTNET_map

Cut plant material that cannot be assigned to a plant species is also dried and weighed. This biomass is then divided and added to the biomass of each species present in the plot according to its relative proportion $[B_a + ((B_a \, / \, B_t) \, * \, B_r))$ where B_a is the biomass of plant a, B_t is total biomass for plot and B_r is the biomass of the remaining plant material for the same plot]. Thus, although scale precision is two decimal places (0.01g), precision in the biomass data table ranges from 0.1 to up 1 x 10^{-9} , due to the distribution of weight from each plot's residual biomass.

Quality control	Percent aerial cover: Estimated for each plant species in a 5 x 5 m or subplot using a modified Daubenmire method (Daubenmire, R. 1959. A canopy-coverage method of vegetation analysis. Northwest Sci. 33: 43-64). Cover is estimated to the nearest 1% percent for each species rooted within the plot as well for bryophytes. Leaf litter and bare ground. Total cover typically exceeds 100% because cover is estimated independently for each species. For any given plant species, bare soil, or bryophytes with a percentage of cover lower than 1% a qualitative score of "+", "++", or "+++" is recorded. In the data tables "+" was converted to 0.1%, "++" to 0.2% and "+++" to 0.3%. Percentage cover for 2021-2023 was estimated using a 1 m side square located in subplot a (NutNet_map.pdf) Professor Mick Crawley has managed this experiment since 2007. He has been directly involved in the application of fertilizers, collection of data and training of people involved in all aspects of the project. He collected data in all but 2021-2023 surveys. NUTNET_collectors.csv include full list of people
	involves in data collection for this project.
	Curation of data files and creation of metadata has been done by Catalina Estrada starting April 2016. Please read README_NUTNET.txt to see specific changes.
D 11	
Data table metadata	10
Number of tables/files	10
	NUNET_plan.csv NUNET_taxa.csv
	NUNET_taxa.csv NUNET_collectors.csv
	NUTNET_heronsbrook_cover.csv
	NUTNET_heronsbrook_biomass.csv
	NUTNET_heronsbrook_biomass.groups.csv
	NUTNET_rookery_cover.csv
	NUTNET_rookery_biomass.csv
	NUTNET_rookery_biomass.groups.csv
	NUTNET_map
Format	.csv, .txt, pdf

File name	NUNET_plan.csv & .txt			
Description	Include treatments and GPS location of plots for both NutNet sites			
Size	7KB			
Case sensitive	No			
Number or records	60			
Number of attributes	13			
Orientation	Variables (attributes) included as columns			
Data table structure and attribute description				
Attribute name	Definition	Type	Attribute description	
site	NutNet site	String	Nominal heronsbrook rookery	
Site_code	Code that identify site in	String	Nominal	

	NutNet		hero.uk rook.uk
block	A letter given to each group of 10 treatments	Character	Nominal letters A, B, C
plot	A unique number given to a plot within a site	Integer	Numbers 1 to 30 Plot code included in table PLOTTREAT
treatment	Name of fertilizers applied and fencing treatment in 25m ² plots	String	Nominal Treatment code included in table PLOTTREAT
n	Whether or not nitrogen is applied	String	Nominal Nitrogen: N added Control: no added
p	Whether or not phosphorus is applied	String	Nominal Phosphorous: P added Control: no added
k	Whether or not potassium is applied	String	Nominal Potassium: K added Control: no added
exclose	Whether plot is fenced for vertebrate exclusion treatment or not	String	Nominal Fenced: enclosed inside a vertebrate-proof fence Control: plot left unfenced
northing	Northward-measured distance distance in the UK geographic cartesian coordinates system	Integer	UK National Grid
easting	Eastward-measured distance distance in the UK geographic cartesian coordinates system	Integer	UK National Grid
latitude	Latitude WGS84 for plot location	Floating point	Precision: 0.0000001 or 0° 00′ 0.00000″(degrees, minutes, seconds)
longitude	Longitude WGS84 for plot location	Floating point	Precision: 0.000001 or 0° 00′ 0.00000″(degrees, minutes, seconds)

File name	NUTNET_heronsbrook_cover.csv & .txt		
Description	Percentage cover data of each species of plant in plots of subplots of		
	Heronsbrook site		
Size	482KB		
Case sensitive	No		
Number or records	3802		
Number of attributes	14		
Orientation	Variables (attributes) included as columns		
File name	NUTNET_heronsbrook_cover.csv & .txt		

Description	Percentage cover data of Rookery site	f each species of	plant in plots of subplots of
Size	205KB		
Case sensitive	No		
Number or records	1859		
Number of attributes	14		
Orientation	Variables (attributes) incl	uded as columns	
Table structure and attribute description			
Attribute name	Definition	Туре	Attribute description
site	NutNet site	String	Nominal Heronsbrook (Silwood Park) or Rookery (Silwood Park)
block	A letter given to each group of 10 treatments	Character	Nominal letters A, B, C
plot	A unique number given to a plot within a site	Integer	Numbers 1 to 30 Code included in table PLOTTREAT
subplot	Name of 2.5x2.5m quarter of plot	Character	Nominal letters a, b, c, d (clockwise) (NutNet_map)
treatment	Name of fertilizers applied and fencing treatment in 25m ² plots	String	Nominal Treatment code included in table PLOTTREAT
n	Whether or not nitrogen is applied	String	Nominal Nitrogen: N added Control: no added
p	Whether or not phosphorus is applied	String	Nominal Phosphorous: P added Control: no added
k	Whether or not potassium is applied	String	Nominal Potassium: K added Control: no added
exclose	Whether plot is fenced for vertebrate exclusion treatment or not	String	Nominal Fenced: enclosed inside a vertebrate-proof fence
taxa	Code for species name or feature for which cover was estimated	String	Control: plot left unfenced Name e.g. Agrostis_capillaris for Agrostis capillaris Bare_ground for bare ground. Details in table NUTNET_taxa
cover	Percentage of a 5x5 m	Floating point	Precision: 0.0 but values

	(up to 2016) or 1 x 1 m area covered by plant species (from 2021)		0.1, 0.2, 0.3 included Type: real Min: 0.1 Max: 100
date	Date was collected	Date	Date YYYY or DD/MM/YYYY format Min: 2008
note_cover	Notes	String	Text
collectors	Name code of person responsible for collection and entry of data	String	Nominal Code included in table NUTNET_collectors.csv

File name	NUTNET_heronsbrook_biomass.csv & .txt				
Description	Aboveground biomass (dry weight) data for each species of plant in plots				
	of Heronsbrook site				
Size	190KB				
Case sensitive	No				
Number or records	1569				
Number of attributes	15				
Orientation	Variables (attributes) included	l as columns			
File name	NUTNET_rookery_biomass	.csv & .txt			
Description	Aboveground biomass (dry	weight) data for	r each species of plant in plots		
_	of Rookery site	_			
Size	130KB				
Case sensitive	No				
Number or records	1118				
Number of attributes	15				
Orientation	Variables (attributes) included	l as columns			
Data table structure and					
attribute description					
Attribute name	Definition	Type	Attribute description		
site	NutNet site	String	Nominal		
			Heronsbrook (Silwood Park)		
			or Rookery (Silwood Park)		
block	A letter given to each group	Character	Nominal		
	of 10 treatments		letters A, B, C		
plot	A unique number given to a	Integer	Numbers 1 to 30		
	plot within a site		Code included in table		
			PLOTTREAT		
treatment	Name of fertilizers applied	String	Nominal		
	and fencing treatment in		Treatment code included in		
	25m ² plots		table PLOTTREAT		
n	Whether or not nitrogen is	String	Nominal		
	applied		Nitrogen: N added		
			Control: no added		

p	Whether or not phosphorus is applied	String	Nominal Phosphorous: P added Control: no added
k	Whether or not potassium is applied	String	Nominal Potassium: K added Control: no added
exclose	Whether plot is fenced for vertebrate exclusion treatment or not	String	Nominal Fenced: enclosed inside a vertebrate-proof fence Control: plot left unfenced
replicate	One of the two 10 x 100 cm strips sampled for aboveground biomass	Integer	Numbers 1 or 2
taxa	Code for species name or feature for which cover was estimated	String	Name e.g. Agrostis_capillaris for Agrostis capillaris Dead_organic_matter for leaf litter an similar. Details in table NUTNET_taxa
mass	Aboveground biomass of plant species included in a 10 x 100 cm quadrat.	Floating point	Unit: g/dry weight/m ² Precision: varies from 0.1 to 1x10 ⁻⁹ Type: real
date	Date was collected	Date	Date YYYY format Min: 2009, Max: 2010
notebiomass	Notes	String	Text
collector	Name code of person responsible for collection and entry of data	String	Nominal Code included in table NUTNET_collectors.csv

File name	NUNET_heronsbrook_biomass_groups.csv & .txt	
Description	Aboveground biomass (dry weight) data for functional groups in plots of	
_	Heronsbrook site	
Size	96KB	
Case sensitive	No	
Number or records	781	
Number of attributes	15	
Orientation	Variables (attributes) included as columns	
File name	NUNET_rookery_biomass_groups.csv & .txt	
Description	Aboveground biomass (dry weight) data for functional groups in plots of	
	Rookery site	
Size	94KB	
Case sensitive	No	
Number or records	847	
Number of attributes	15	
Orientation	Variables (attributes) included as columns	
Data table structure and		

Attribute description Attribute name	Definition	Typo	Attribute description
		Type	Attribute description
site	NutNet site	String	Nominal Heronsbrook (Silwood Park)
			or Rookery (Silwood Park)
block	A letter given to each group	Character	Nominal
	of 10 treatments		letters A, B, C
plot	A unique number given to a	Integer	Numbers 1 to 30
	5x5 m plot with a site		Code included in table PLOTTREAT
subplot	A letter given to each quarter	Character	Nominal
r	of a plot (2.5 x 2.5 m)		Clockwise letters: a,b,c,d (NutNet_map)
treatment	Name of fertilizers applied	String	Nominal
treatment	and fencing treatment in	Sumg	Treatment code included in
	25m ² plots		table PLOTTREAT
n	Whether or not nitrogen is	String	Nominal
	applied		Nitrogen: N added
			Control: no added
p	Whether or not phosphorus is	String	Nominal
	applied		Phosphorous: P added
			Control: no added
k	Whether or not potassium is	String	Nominal
	applied		Potassium: K added
			Control: no added
exclose	Whether plot is fenced for	String	Nominal
	vertebrate exclusion treatment or not		Fenced: enclosed inside a vertebrate-proof fence
			Control: plot left unfenced
replicate	One of the two 10 x 100 cm	Integer	Numbers 1 or 2 or 1,2 if mass
	strips sampled for aboveground biomass		value include both
taxa	Name of the functional group	String	Name
	dry mass was estimated		Dead_organic_matter,
			Bryophytes, Gaminoids,
			Forbs, Woody, Legumes
			NA no biomass measured
mass	Aboveground biomass of	Floating point	Unit: g/dry weight/m ²
	plant species included in a 10		Precision: varies from 0.1 to
	x 100 cm quadrat.		1x10 ⁻⁹
			Type: real
date	Date was collected	Date	Date
			DD/MM/YYYY or
			YYYY format
			Min: 2009
notebiomass	Notes	String	Text
collectors	Name code of person	String	Nominal
	responsible for collection and		Code included in table

entry of data	NUTNET_collectors.csv

File name	NUNET_taxa.csv & .txt		
Description	Taxonomic information of plants found in both NutNEt sites. Follows NBN atlas names and classification https://nbnatlas.org/		
Size	17KB	_	
Case sensitive	No		
Number or records	124		
Number of attributes	14		
Orientation	Variables (attributes) included	as columns	
Data table structure and attribute description			
Attribute name	Definition	Type	Attribute description
site	NutNet site	String	Nominal Heronsbrook (Silwood Park) or Rookery (Silwood Park)
taxa	Code name used in cover and biomass tables	String	Name e.g. Agrostis_capillaris for Agrostis capillaris
common_name	One common name for the species in England (NBN atlas)	String	Text
kingdom	Taxonomic kingdom the species belongs to	String	Text Plantae
division	Taxonomic (plant) division the species belongs to	String	Text
family	Taxonomic family the species belongs to	String	Text
genus	Taxonomic genus the species belongs to	String	Text
species	Taxonomic species the species belongs to	String	Text
variety	Taxonomic subspecies classification	String	Text
lifeform	Lifeform group the plant belongs too	String	Text Herb, Shrub, Tree,
lifespan	Whether the plant species is an annual, biennial or perennial	String	Text Perennial, Annual, Biennial
provenance	Whether species is native or introduced to the United Kingdom	String	Text Native, Introduced
local.name	Name use at site if different than the standard NBN name. This field is to help link data with local databases	String	Text
note_taxa	Notes (including synonyms used in raw data)	String	Text

File name	NUNET_collectors.csv & .txt		
Description	Information about data collectors for both NutNEt sites		
Size	570B		
Case sensitive	No		
Number or records	6		
Number of attributes	5		
Orientation	Variables (attributes) included as columns		
Data table structure and attribute description			
collectors	Code name of data collector reported in cover and biomass tables	String	Text Name intials_second name Eg. C_Estrada
name	Name(s) of data collector	String	Text
surname	Surname or family name(s) of collector	String	Text
affiliation	University of institute the person belongs to (when data was collected)	String	Text
position	Position within institution (when data was collected)	String	Text

Data anomalies	
	In table heronsbrook_biomass_groups.csv data of herb biomass for block A, nutrient treatment NK, in 2012 was changed from "-0.26" to "0.26" assuming the negative signal is an entry error.
	In table rookery_cover.csv species <i>Salix cinerea</i> was identified in 2016 survey as subspecies <i>oleifolia</i> In table heronsbrook_cover.csv species <i>Carex muricata</i> was identified in 2016 survey as subspecies <i>pairae</i>

Supplemental descriptors		
Publications	11 used Silwood Park cites and have an ICL author. Full list	
	https://nutnet.org/publications	
Order	By year of publication	
	Firn J, et al. (2011) Abundance of introduced species at home predicts	
	abundance away in herbaceous communities. <i>Ecology Letters</i> 14: 274–281.	
	doi:10.1111/j.1461-0248.2010.01584.x	
	Keywords: Biogeography, biosecurity, disturbance, global meta-study,	
	homogenization of communities, invasion paradox, mechanisms of invasion,	
	Nutrient Network, plant invasion, propagule pressure	
	Lind EM, et al. (2013) Life-history constraints in grassland plant species: a	
	growth-defence trade-off is the norm. <i>Ecology Letters</i> 16: 513–521. doi:	
	10.1111/ele.12078	
	Keywords: Coexistence, competition-defence hypothesis, life history,	

	mammalian herbivory, resource limitation, tolerance, top-down bottom-up, trade-offs.
	Seabloom EW, <i>et al.</i> (2013) Predicting invasion in grassland ecosystems: Is
	exotic dominance the real embarrassment of richness? Global Change Biology
	19: 3677–3687. doi: 10.1111/gcb.12370
	Keywords: invasive species, plant diversity, Nutrient Network
	Borer ET, <i>et al.</i> (2014) Herbivores and nutrients control grassland plant
	diversity via light limitation. <i>Nature</i> 508: 517–20. doi:10.1038/nature1314
	Keyword: Nutrient Network, grassland ecology, herbivory, eutrophication
	Seabloom EW, et al. (2015) Plant species' origin predicts dominance and
	response to nutrient enrichment and herbivores in global grasslands. <i>Nature</i>
	Communications 6. Doi: 10.1038/ncomms8710
	Keywords: native and exotic plant species, perturbations
	Widdig M, et al. (2019) Nitrogen and Phosphorus Additions Alter the
	Abundance of Phosphorus-Solubilizing Bacteria and Phosphatase Activity in
	Grassland Soils. Frontiers in Environmental Science 7 (185) Doi:
	https://doi.org/10.3389/fenvs.2019.00185
	Hautier Y. et al. (2020) General destabilizing effects of eutrophication on
	grassland productivity at multiple spatial scales. <i>Nature Communications 11:</i>
	5375. https://doi.org/10.1038/s41467-020-19252-4
	Widdig M, et al. (2020) Microbial carbon use efficiency in grassland soils
	subjected to nitrogen and phosphorus additions. Soil Biology and Biochemistry
	146. Doi: https://doi.org/10.1016/j.soilbio.2020.107815
	Schleuss PM, et al. (2021) Microbial substrate stoichiometry governs nutrient
	effects on nitrogen cycling in grassland soils. Soil Biology and Biochemistry
	155: 108168. https://doi.org/10.1016/j.soilbio.2021.108168
	Chen Q, et al. (2022) Nutrients and herbivores impact grassland stability
	across spatial scales through different pathways. Global Change Biology 28:
	2678-2688. https://doi.org/10.1111/gcb.16086
	Bakker JD, et al. (2023) Compositional variation in grassland plant
	communities. Ecosphere 2023;14:e4542. https://doi.org/10.1002/ecs2.4542
How to cite database	Contact c.estrada@imperial.ac.uk
How to acknowledge	Contact c.estrada@imperial.ac.uk
dataset	111 07 07
Additional information	-A map is available (NutNet_map.pdf)
	- Further taxonomic information in file Silwood_species.cvs