

Supplement of SOIL, 6, 523–539, 2020  
<https://doi.org/10.5194/soil-6-523-2020-supplement>  
© Author(s) 2020. This work is distributed under  
the Creative Commons Attribution 4.0 License.



*Supplement of*

## **Nitrogen availability determines the long-term impact of land use change on soil carbon stocks in grasslands of southern Ghana**

**John Kormla Nyameasem et al.**

*Correspondence to:* John Kormla Nyameasem ([jnyameasem@gfo.uni-kiel.de](mailto:jnyameasem@gfo.uni-kiel.de), [jnyameasem@gmail.com](mailto:jnyameasem@gmail.com))

The copyright of individual parts of the supplement might differ from the CC BY 4.0 License.

Table S1: Plant species according to land-use systems at the study site<sup>c</sup>

Cut-use fodder grasses

<i>Andropogon gabonensis</i>	<i>Cenchrus setigerus</i>	<i>Eragrostis curvula</i>	<i>Paspalum conjugatum</i>	<i>Stenotaphrum dimidiatum</i>
<i>Andropogon gayanus</i>	<i>Chloris gayana</i>	<i>Eragrostis turgida</i>	<i>Paspalum dilatatum</i>	<i>Tripsacum laxum</i>
<i>Andropogon tectorum</i>	<i>Chrysopogon aciculatus</i>	<i>Heteropogon contortus</i>	<i>Paspalum notatum</i>	<i>Urochloa bolbodes</i>
<i>Brachiaria brizantha</i>	<i>Cymbopogon giganteus</i>	<i>Hydropogon canaliculata</i>	<i>Paspalum virgatum</i>	<i>Urochloa pullulans</i>
<i>Brachiaria mutica</i>	<i>Cynodon dactylon</i>	<i>Hyperthelia dissoluta</i>	<i>Pennisetum purpureum</i>	<i>Vetiveria fulvivanus</i>
<i>Brachiaria ruziziensis</i>	<i>Cynodon plectostachyus</i>	<i>Panicum maximum</i> (Guinea fine)	<i>Pennisetum ruppelii</i>	<i>Vetiveria zizanioides</i>
<i>Buchloe dactyloides</i>	<i>Digitaria decumbens</i>	<i>Panicum maximum</i> (ILCA)	<i>Seteria sp.</i>	
<i>Cenchrus ciliaris</i>	<i>Digitaria swanzilandensis</i>	<i>Panicum maximum</i> (local)	<i>Seteria sphacelata</i>	
<i>Cenchrus setigerus</i>	<i>Digitaria valida</i>	<i>Panicum maximum</i> (South Africa)	<i>Sporobolus pyramidalis</i>	

Cut-use fodder herbs

<i>Calopogonium mucunoides</i>	<i>Clitoria ternatea</i>	<i>Macroptilium atropurpureum</i> (Siratro)	<i>Mucuna pruriens</i> (Bunso)	<i>Stylosanthes guianensis</i>
<i>Centrosema pubescens</i>	<i>Desmodium distortum</i>	<i>Macroptilium lathyroides</i>	<i>Pueraria phaseoloides</i>	<i>Stylosanthes hamata</i>
<i>Centrosema pubescens</i> (ILCA)	<i>Lablab purpureus</i>	<i>Mucuna pruriens</i>	<i>Sesbania grandiflora</i>	

Fodder trees and shrubs

<i>Baphia nitida</i>	<i>Desmanthus virgatus</i>	<i>Leucaena leucocephala</i> (Peru)	<i>Leucaena leucocephala</i> (local)	<i>Pithecelobium dulce</i>
<i>Cajanus cajan</i>	<i>Gliricidia sepium</i>	<i>Leucaena leucocephala</i> (Langerham)	<i>Moringa oleifera</i>	<i>Spondias mombin</i>
<i>Cratylia argentea</i>				

Native grassland

<i>Acacia spp.</i>	<i>Azadirachta indica</i>	<i>Cyperus rotundata</i>	<i>Elaeis guineensis</i>	<i>Panicum maximum</i>
<i>Panicum decumbens</i>	<i>Talinum triangulare</i>			

Seeded grazing fields

<i>Brachiaria brizantha</i>	<i>Brachiaria ruziziensis</i>	<i>Digitaria decumbens</i>		
-----------------------------	-------------------------------	----------------------------	--	--

Food crop fields

<i>Manihot esculenta</i>	<i>Zea mays</i>	<i>Vigna unguiculata</i>	<i>Arachis hypogaea</i>	
--------------------------	-----------------	--------------------------	-------------------------	--

<sup>c</sup>Names in parenthesis indicate cultivar name