

National Biomass Study 2016-2019

National Forest Authority, Ministry of Water and Environment, District Forest Services

report_generated_on: July 13, 2026

visit_data_catalog_at: <https://microdata.worldbank.org/>

Identification

SURVEY ID NUMBER

UGA_2016-2019_NBS_v01_M_v01_A_OCS

TITLE

National Biomass Study 2016-2019

ABBREVIATION OR ACRONYM

NBS 2016-19

COUNTRY/ECONOMY

Name	Country code
Uganda	UGA

STUDY TYPE

Forest survey

SERIES INFORMATION

Three previous phases of the NBS for woody biomass assessment took place in 1989-90 in 7 peri-urban areas, 1990-2002 and 2003-2006 at national level mostly outside protected areas. (see Chapter 1.2 of document "UGANDA NATIONAL FOREST INVENTORY (NFI)"). Also, the Exploratory Inventory (EI) 1990-1995 (not comparable in scope and coverage) was mostly on Central Forest Reserves (protected areas) and was used together with the NBS to compound the National Forest Inventory (NFI) estimates.

ABSTRACT

National Biomass Survey (NBS) - was designed in 1989 to quantify biomass stock across the landscape in all woody formations including bush and agricultural residues with the purpose to evaluate the biomass energy contributes of Uganda's total delivered energy. After the REDD+ programme engagement, Uganda used the biomass information from NBS for climate change studies. NBS reports provide very reliable statistics on biomass resources down to Sub- County level.

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Plants

Scope

NOTES

BIOMASS: quantify biomass stock across the landscape in all woody formations including bush and agricultural residues

TOPICS

Topic
Forest production and carbon stocks

KEYWORDS

Keyword
Forests
Carbon
Tree biomass
Tree Volume
Deadwood

Land use
Canopy cover
Tree biodiversity
Forest Production
Land cover
Forest fire evidence

Coverage

GEOGRAPHIC COVERAGE

National coverage

UNIVERSE

Trees = 3 cm DBH. Deadwood pieces = 10 cm diameter

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
National Forest Authority	NFA
Ministry of Water and Environment	
District Forest Services	

PRODUCERS

Name	Role
Ministry of Water and Environment	Coordination
District Forest Services	Support in Field Operation
Food and Agriculture Organization	Technical Support

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
Forest Carbon Partnership Facility	FCPF	
Austria Development Agency	ADC	
Food and Agriculture Organization	FAO	Implementation Agency

Sampling

SAMPLING PROCEDURE

Systematic cluster grid of 5 km by 5 km, stratified by three population intensities of less than 50 people per km, between 50 and 100 people per km and above 100 people per km. Sampling included protected areas. Out of a cluster (PSU) of nine plots (SSU, their plot centers separated 300 m producing a cluster cross shape and 0.25 ha - 50 x 50 m - of area) on each grid intersection a minimum of three plots are measured. A total of 439 square plots in a sampled area of 110 hectares. Given the unequal geographical representativity of the samples, it is difficult to assign a sampling intensity. The plot selection is made during the planning phase by the field Inventory Supervisor, the Field team leaders are allowed to make alternative selections only if a preselected plot(s) is inaccessible. Selection priority is given to the plot numbers 1, 2 and 3 at the centre although any other plot may be measured as replacement of any of the three key plots. Interest in getting

information on certain vegetation types may influence plot selection. Each square plot is subdivided into five strips measuring 10 by 50 metres, running in the east-west direction. Tree measurements are done systematically from one strip to another, and tree numbering is based on the location of the tree in the strip. This is intended to make tree re-identification easier during subsequent visits. NBS has a nested plot approach whereby the minimum measurable DBH in the first strip is 3cm. In the rest of the plot, the DBH threshold is trees of 5cm and above.

DEVIATIONS FROM THE SAMPLE DESIGN

The within-cluster plot selection protocol makes a proper probabilistic selection of plots as sampling units impossible. Hence taking cluster as the minimum sampling unit while using an uneven inclusion probability approach is recommendable in the analysis. The unit of analysis, however, was a cluster - weighted by total plot within cluster area.

RESPONSE RATE

Response rates are close to 100% due to the within-cluster plot selection protocol (whereby 3 plots out of the possible 9 per cluster, are selected - if one pre-selected plot is inaccessible the crew leader will choose another one).

WEIGHTING

Sample weights were determined according to area expansion factors (in regards to a reference 0.5 ha. total area per SSU). Hence they are given as:

Weight w of trees and deadwood pieces included in whole plot: $0.25 \text{ ha} / 0.25 \text{ ha} = 1$

Weight w of strip 1 for trees $3 \leq \text{DBH} < 5 \text{ cm}$: $0.25 \text{ ha} / 0.05 \text{ ha} = 5$

Reweightings if cluster is statistical unit of analysis: $w * 9$ plots per cluster/no. plots enumerated in cluster

Data collection

DATES OF DATA COLLECTION

Start	End	Cycle
2016-01	2019-07	5

DATA COLLECTION MODE

Other [oth]

DATA COLLECTION NOTES

Data collected by measuring and observing variables in the field and entering data in a tablet with specific software (OpenForis)

data_processing

DATA EDITING

Several data quality control procedures took place: 1) 10% of plots in the field were rechecked by peer teams (Number of trees not correctly identified, Number of trees that are supposed to be in a plot but were omitted, Number of trees that were not supposed to be in a plot but were included, DBH error measurements in percent error from the correct measurement, Height error measurement percent error from the correct measurement, Incorrect recording of plot coordinates, Incorrect recording of land use\cover). 2) minimum and maximum limits to DBH and height values (which are mandatory) are built in the mobile device forms and software (Open Foris Collect) to capture data, which automatically val. Data Cleaning ex-post collection has been done by analyzing the species names, heights, DBH, number of trees per hectare. Only errors have been removed but not the outliers. Dates data entries according to validation rules. 3) a daily manual supervision of the data enumerated takes place by the field crew leader

data_appraisal

ESTIMATES OF SAMPLING ERROR

Tree heights were measured with hypsometers using the tangent method, which has been observed in other studies to possibly overestimate tree heights, particularly when the distance to the tree was less than its height. This situation is fairly common in a forest inventory, since the forest often masks the vision of individual trees, so crews can only measure from very near the trees.

Access policy

CONTACTS

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CITATION REQUIREMENTS

(c) UGANDA NFI 2016

Or

NFI Report: UGANDA NATIONAL FOREST INVENTORY (NFI), THE NATIONAL FORESTRY AUTHORITY
MINISTRY OF WATER AND ENVIRONMENT 2019.

Disclaimer and copyrights

DISCLAIMER

The user of the data acknowledges that the original collector of the data, the authorized distributor of the data, and the relevant funding agency bear no responsibility for use of the data or for interpretations or inferences based upon such uses.

Metadata production

DDI DOCUMENT ID

DDI_UGA_2016-2019_NBS_v01_M_v01_A_OCS_FAO

PRODUCERS

Name	Abbreviation	Affiliation	Role
Office of Chief Statistician	OCS	Food and Agriculture Organization	Metadata adapted for FAM
Antonello Salis		Food and Agriculture Organization	Metadata producer
Development Economics Data Group	DECDG	World Bank Group	Metadata adapted for World Bank Microdata Library

DATE OF METADATA PRODUCTION

2023-02-23

DDI DOCUMENT VERSION

Identical to a metadata (UGA_2016-2019_NBS_v01_EN_M_v01_A_OCS) published on FAO microdata repository (<https://microdata.fao.org/index.php/catalog>). Some of the metadata fields have been edited.

data_dictionary

Data file	Cases	variables
UGA_2016_2019_NBS	214654	20

Data file: UGA_2016_2019_NBS

Cases: 214654

variables: 20

variables

ID	Name	Label	Question
V85	PlotNo		
V86	Month		
V87	Year		
V88	TreeNo		
V89	DBH		
V90	BoleHeight		
V91	TreeHeight		
V92	CrownDiameter		
V93	TreeCondition		
V94	CrownCondition		
V95	BasalArea		
V96	AG_Biomass		
V97	BasalArea_HA		
V98	DiameterClass		
V99	BoleVolume		
V100	StemVolume		
V101	Plot_area_Ha		
V102	DW_Count		
V103	Plot_Shape		
V104	scientific_name		

total: 20

PLOTNO:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 205576 Invalid: 9078 Minimum: 34011 Maximum: 943046 Mean: 519925.803 Standard deviation: 181640.579

Type: Continuous Decimal: 2 Range: - Format: Numeric

MONTH:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654 Minimum: 1 Maximum: 12 Mean: 6.737 Standard deviation: 3.241

Type: Discrete Decimal: 2 Range: - Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

YEAR:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654 Minimum: 2003 Maximum: 2019 Mean: 2006.949 Standard deviation: 4.214

Type: Discrete Decimal: 2 Range: - Format: Numeric

Questions and instructions

CATEGORIES

Value	Category
2003	
2004	
2005	
2006	
2007	
2008	
2009	
2016	
2017	
2018	
2019	

TREENO:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Minimum: 1 Maximum: 1000 Mean: 78.058 Standard deviation: 98.159
 Type: Continuous Decimal: 2 Range: - Format: Numeric

DBH:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Minimum: 0.2 Maximum: 199 Mean: 8.784 Standard deviation: 8.583
 Type: Continuous Decimal: 2 Range: - Format: Numeric

BOLEHEIGHT:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214619 Invalid: 35 Maximum: 25 Mean: 2.252 Standard deviation: 1.412
 Type: Continuous Decimal: 2 Range: - Format: Numeric

TREEHEIGHT:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Minimum: 0.3 Maximum: 65 Mean: 5.01 Standard deviation: 2.743
 Type: Continuous Decimal: 2 Range: - Format: Numeric

CROWNDIAMETER:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214618 Invalid: 36 Maximum: 70 Mean: 2.156 Standard deviation: 1.896
 Type: Continuous Decimal: 2 Range: - Format: Numeric

TREECONDITION:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 29275 Invalid: 185379 Minimum: 1 Maximum: 5
 Type: Discrete Decimal: 2 Range: - Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Alive	0	
2	Declining	0	
3	Unhealthy	0	
4	Dying	0	
5	Dead	0	
Sysmiss		185379	100%

CROWNCONDITION:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 28725 Invalid: 185929 Minimum: 1 Maximum: 5
 Type: Discrete Decimal: 2 Range: - Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1	Healthy	0	
2	Declining Health	0	
3	Unhealthy	0	
4	Dying	0	

5	Dead	0	
Sysmiss		185929	100%

STEMVOLUME:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654 Minimum: 0 Maximum: 64.693 Mean: 0.0849 Standard deviation: 0.702
 Type: Continuous Decimal: 2 Range: - Format: Numeric

PLOT_AREA_HA:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654 Minimum: 0.04 Maximum: 0.25 Mean: 0.241 Standard deviation: 0.0409
 Type: Continuous Decimal: 2 Range: - Format: Numeric

DW_COUNT:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 3121 Invalid: 211533 Minimum: 1 Maximum: 1 Mean: 1
 Type: Discrete Range: - Format: Numeric

Questions and instructions

CATEGORIES

Value	Category	Cases	
1		0	
Sysmiss		211533	100%

PLOT_SHAPE:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654
 Type: Discrete Range: - Format: character

Questions and instructions

CATEGORIES

Value	Category
Circular	
Standard	

SCIENTIFIC_NAME:**Data file:** UGA_2016_2019_NBS**Overview**

Valid: 214654

Type: Discrete Range: - Format: character

Questions and instructions

CATEGORIES

Value	Category
Abrus canescens	
Abutilon africana	
Acacia	
Acacia abyssinica	
Acacia albida	
Acacia brevispica	
Acacia dolichocephala	
Acacia gerrardii	
Acacia hecatophylla	
Acacia hockii	
Acacia horrida	
Acacia kirkii	
Acacia lahai	
Acacia macrothyrsa	
Acacia mearnsii	
Acacia mellifera	
Acacia monticola	
Acacia nilotica	
Acacia pentagona	
Acacia persiciflora	
Acacia polyacantha	
Acacia reficiens	
Acacia senegal	
Acacia seyal	

Acacia sieberiana	
Acacia tortilis	
Acanthus arborescens	
Aeschynomene abyssinica	
Azelia africana	
Agelaea heterophylla	
Aidia micrantha	
Alafia landolphia	
Alangium chinense	
Albizia	
Albizia adianthifolia	
Albizia coriaria	
Albizia ferruginea	
Albizia glaberrima	
Albizia grandibracteata	
Albizia gummifera	
Albizia petersiana	
Albizia schimperiana	
Albizia versicolor	
Albizia zygia	
Alchemilla argyrophylla	
Alchornea	
Alchornea cordifolia	
Alchornea floribunda	
Alchornea laxiflora	
Aleurites moluccana	
Allanblackia kimbiliensis	
Allophylus abyssinicus	
Allophylus africanus	
Allophylus alnifolius	
Allophylus chaunostachys	
Allophylus ferruginea	
Aloe dawei	
Alstonia boonei	
Anacardium occidentale	
Anigerea	
Aningeria adolfi-friederici	
Aningeria altissima	
Annona	

Annona senegalensis	
Anthocleista grandiflora	
Antiaris africana	
Antiaris toxicaria	
Antidesma	
Antidesma laciniatum	
Antrocaryon micraster	
Aphelandra cristata	
Aphelandra tetragona	
Apodytes dimidiata	
Araucaria angustifolia	
Artabotrys lastoursvillensis	
Artobotrys likimensis	
Artocarpus heterophyllus	
Arundinaria alpina	
Atocarpus heterophylla	
Azadirachta indica	
Baikiaea insignis	
Balanites aegyptiaca	
Balanites orbicularis	
Balanites pedicellaris	
Balanites wilsoniana	
Balanites wilsoniana	
Baphia wollastonii	
Barkheya spekeana	
Barleria brownii	
Bathiopsis paviflora	
Beilschmiedia ugandensis	
Berberis holstii	
Bersama abbyssinica	
Bersama abbyssinica	
Bixa orellana	
Blighia unijugata	
Bombax buonopozense	
Borassus	
Borassus aethiopum	
Brachylaena hutchinsii	
Branthemum purpureum	
Bridelia	

Bridelia atroviridis	
Bridelia brideliifolia	
Bridelia micrantha	
Bridelia schromeroida	
Bridelia scleroneura	
Broussinetia papyrifera	
Buddleia polystachya	
Butydevia nyaska	
Butyrospermum paradoxum	
Cadaba farinosa	
Calamus deeratus	
Calliandra calothyrsus	
Callistemon citrinus	
Calodendrum capense	
Caloncoba crepiniana	
Caloncoba schweinfurthii	
Canarium schweinfurthii	
Canthium crassum	
Canthium venosum	
Canthium vulgare	
Capparis	
Capparis erythrocarpos	
Carapa grandiflora	
Carissa edulis	
Casearia battiscombei	
Cassia	
Cassia didymobotrya	
Cassia mannii	
Cassia petersiana	
Cassia siamea	
Cassia sieberiana	
Cassia spectabilis	
Cassine	
Cassine aethiopica	
Casuarina equisetifolia	
Cathormion altissimum	
Cedrela	
Cedrela odorata	
Celtis	

Celtis adolfi-frederici	
Celtis africana	
Celtis durandii	
Celtis integrifolia	
Celtis mildbraedii	
Celtis wightii	
Celtis zenkeri	
Chaetacme	
Chaetacme aristata	
Chrysophyllum albidum	
Chrysophyllum beguei	
Citrus	
Citrus limonia	
Citrus nobilis	
Citrus simnensis	
Clausena anisata	
Coffea	
Coffea canephora	
Coffea liberica	
Cola bracteata	
Cola gigantea	
Combretum	
Combretum aculeatum	
Combretum capituliflorum	
Combretum cinereopetalum	
Combretum collinum	
Combretum fragrans	
Combretum hereroense	
Combretum molle	
Combretum mucronatum	
Combretum paniculatum	
Combretum racemosum	
Combretum schweinfurthii	
Combretum umbricola	
Commiphora	
Commiphora africana	
Commiphora schimperi	
Connarus longistipitatus	
Cordia africana	

Cordia millenii	
Cordia monoica	
Cordia quarcifolia	
Cordia sinensis	
Craibia brownii	
Crassocephalum africanus	
Crassocephalum mannii	
Cremaspora triflora	
Crotalaria natalitia	
Croton dichogamus	
Croton macrostachys	
Croton megalocarpus	
Croton oxypetalus	
Cupressus lusitanica	
Cussonia arborea	
Cyathea borbonica	
Cynometra alexandri	
Cyphomandra batacea	
Dalbergia lactea	
Dalbergia melanoxydon	
Dalbergia nitidula	
Dambeya goetzenii	
Daniellia oliveri	
Dasylepis racemosa	
Datura suaveolens	
Delonix elata	
Delonix regia	
Dialium excelsuim	
Dichaetanthera corymbosa	
Dichapetalum angolense	
Dichapetalum madagascariense	
Dichrostachys	
Dichrostachys cinerea	
Dicliptera colorata	
Dictyandra arborescens	
Diospyros abyssinica	
Diospyros kirkii	
Diospyros mespiliformis	
Diphasia angolensis	

Discoglyprena caloneura	
Dobera glabra	
Dolichos oliveri	
Dombeya bagshawei	
Dombeya dawei	
Dombeya goetzenii	
Dombeya mastersii	
Dombeya mukole	
Dombeya nairobiensis	
Dombeya rotundifolia	
Dovyalis abyssinica	
Dovyalis cafra	
Dracaena afromontana	
Dracaena fragrans	
Dracaena steudneri	
Drypetes	
Dyslepsia egglingii	
Ehretia cymosa	
Ekebergia	
Ekebergia capensis	
Ekebergia senegalensis	
Ekerbegia	
Ekerbegia capensis	
Elaeis	
Elaeis guineensis	
Embelia nilotica	
Encephalartos barteri	
Encephalartos septentrionalis	
Ensete ventricosum	
Entada abyssinica	
Entada africana	
Entandrophragma angolense	
Entandrophragma cylindricum	
Entandrophragma utile	
Eranthemum purpureum	
Erythrina abyssinica	
Erythrina excelsa	
Erythrococca	
Erythrococca bongensis	

Euadenia eminens	
Eucalyptus	
Eucalyptus camaldulensis	
Eucalyptus grandis	
Eucalyptus saligna	
Eucalyptus tereticormis	
Euclea divinorum	
Euclea latidens	
Euclea schimperi	
Eugenia bukobensis	
Euphorbia	
Euphorbia breviararticulata	
Euphorbia bwambensis	
Euphorbia calamiformis	
Euphorbia candelabrum	
Euphorbia dawei	
Euphorbia teke	
Euphorbia tirucalli	
Euphorbia venenifica	
Fagara	
Fagara leprieurii	
Fagara macrophylla	
Fagara mildbraedii	
Fagara zantoxylem	
Fagaropsis	
Fagaropsis angolensis	
Faurea saligna	
Feretia apodanthera	
Ficus	
Ficus abutilifolia	
Ficus asperifolia	
Ficus barteri	
Ficus bubu	
Ficus capreifolia	
Ficus conraui	
Ficus cyathistipula	
Ficus dicranostyla	
Ficus exasperata	
Ficus glumosa	

Ficus ingens	
Ficus lingua	
Ficus mucoso	
Ficus natalensis	
Ficus oreodryadum	
Ficus ottoniifolia	
Ficus ovata	
Ficus platyphylla	
Ficus polita	
Ficus populifolia	
Ficus pseudomangifera	
Ficus sansibarica	
Ficus saussureana	
Ficus sur	
Ficus sycomorus	
Ficus thonningii	
Ficus tremula	
Ficus trichopoda	
Ficus vallis-choudae	
Ficus variifolia	
Flacourtia	
Flacourtia indica	
Flueggea	
Flueggea virosa	
Funtumia africana	
Funtumia elastica	
Galiniera saxifraga	
Garcinia buchananii	
Garcinia livingstonei	
Gardenia	
Gardenia aqualla	
Gardenia ternifolia	
Gardenia vogelii	
Gardenia volkensii	
Gmellina arborea	
Greenwayodendron suaveolens	
Grevillea robusta	
Grewia bicolor	
Grewia microcarpa	

Grewia mildbraedii	
Grewia mollis	
Grewia pubescens	
Grewia schliebenii	
Grewia similis	
Grewia trichocarpa	
Grewia villosa	
Guarea cedrata	
Guarea mayombensis	
Hagenia	
Hagenia abyssinica	
Hallea rubrostipulata	
Hallea stipulosa	
Hannoa longipes	
Haronga madagascariensis	
Harrisonia	
Harrisonia abysinica	
Harungana madagascariensis	
Heinsenia diervilleoides	
Helichrysum amblyphyllum	
Hevea brasiliensis	
Hexalobus monopetalus	
Huslonia opposita	
Hymenocardia acida	
Indigofera arrecta	
Indigofera binderi	
Isoberlinia doka	
Jacaranda mimosifolia	
Jatropha curcus	
Juniperus grandis	
Khaya anthotheca	
Khaya grandifoliola	
Khaya senegalensis	
Kigelia africana	
Landolphia buechananii	
Landolphia petersiana	
Lannea	
Lannea barteri	
Lannea fruticosa	

Lannea fulva	
Lannea kerstingii	
Lannea schweinfurthii	
Lannea triphylla	
Lannea welwitschii	
Lasianthus kilimandsharicus	
Lasiodiscus mildbraedii	
Lecaniodiscus cupanioides	
Lecaniodiscus fraxinifolius	
Leea guineensis	
Leucaena leucocephala	
Linociera nilotica	
Lobelia aberderica	
Lonchocarpus laxiflorus	
Lophira lanceolata	
Loranthus platyphyllus	
Loranthus sagittifolius	
Lovoa swynnertonii	
Lovoa trichiliodes	
Macaranga angolensis	
Macaranga pyneartii	
Macaranga schweinfurthii	
Macrorungia pubinervia	
Macrosphyra longistyla	
Maerua angolensis	
Maerua duchensii	
Maesa lanceolata	
Maesobotrya floribunda	
Maesopsis eminii	
Mallotus oppositifolius	
Mangifera	
Mangifera indica	
Manilkara multinervis	
Mareya brevipes	
Margaritaria discoideus	
Markhamia lutea	
Markhamia platycalyx	
Maytenus	
Maytenus acuminata	

Maytenus arquata	
Maytenus atkaio	
Maytenus lancifolia	
Maytenus luteola	
Maytenus ovata	
Maytenus senegalensis	
Maytenus serratus	
Maytenus undata	
Meineckia phyllanthoides	
Melastomastrum	
Melia azedrac	
Melletia dura	
Mildbraediodendron excelsum	
Milicia excelsa	
Mimosa pigra	
Mimusops bagshawei	
Mimusops kummel	
Monanthotaxis buchananii	
Monodora angolensis	
Monodora myristica	
Morinda lucida	
Moringa oleifera	
Morus alba	
Morus mesozygia	
Musanga cecropioides	
Myrianthus arboreus	
Myrica	
Nauclea diderrichii	
Neoboutonia macrocalyx	
Newtonia buchananii	
Nidorella arborea	
Ochna	
Ochna holstii	
Ouratea morsoni	
Ozoroa insignis	
Pachycarpus eximiuis	
Pachystela	
Pancovia turbinata	
Pappea capensis	

Parinari curatellifolia	
Parinari excelsa	
Parkia filicoidea	
Parkinsonia aculeata	
Paroposia guineensis	
Pavetta crassipes	
Pavetta molundensis	
Peddiea fisheri	
Pentas schimperana	
Persea americana	
Philippia benguelensis	
Phoenix reclinata	
Phyllanthus discoideus	
Phyllanthus fischeri	
Phyllanthus ovalifolius	
Phyllanthus sepialis	
Picralima nitida	
Piliostigma	
Piliostigma thorningii	
Pinus caribaea	
Pinus patula	
Piptadeniastrum africanum	
Pistacia aethiopica	
Pittosporum	
Pittosporum lanatum	
Pittosporum mannii	
Pittosporum spathicalys	
Pliosepalus curuiflorus	
Plumbago dawei	
Plumeria alba	
Podocarpus gracilior	
Podocarpus milanjanus	
Polyalthia	
Polygala ruwenzoriensis	
Polyscia fulva	
Premna angolensis	
Proposis africana	
Prosopis africana	
Protea abyssinica	

Protea congensis	
Protea madiensis	
Prunus africana	
Pseudagrostistachys	
Pseudagrostistachys ugandensis	
Pseudarthria confertiflora	
Pseudocedrela kotschy	
Pseudomussaenda flava	
Pseudospondias microcarpa	
Psidium guajava	
Psorospermum corymbiferum	
Psorospermum febrifugum	
Pterocarpus lucens	
Pterygota mildbraedii	
Pulchea bequaertii	
Pycnanthus angolensis	
Raphia farinifera	
Rauvolfia vomitoria	
Rhamnus prinoides	
Rhamnus staddo	
Rhus	
Rhus anchietae	
Rhus natalensis	
Rhus vulgaris	
Ricinodendron heudelotii	
Ricinus communis	
Rothmannia longiflora	
Rothmannia urcelliformis	
Roystonea regia	
Rutidea fuscescens	
Rutidea smithii	
Salix subserata	
Salvadora persica	
Sapium ellipticum	
Sapium leonardii-crispi	
Sarcocephalus latifolius	
Schefflera	
Schefflera abyssinica	
Schefflera barteri	

Schefflera volkensii	
Schrebera alata	
Schrebera arborea	
Sclerocarya birrea	
Scolopia	
Scolopia rhamniphylla	
Scolopia theifolia	
Scutia myrtina	
Securidaca longipedunculata	
Securinea vilosa	
Senecio elgonensis	
Senna spectabilis	
Sesbania dummeri	
Sesbania sericea	
Sesbania sesban	
Sida ovata	
Solanum aculeastrum	
Solanum giganteum	
Solanum incanum	
Spathodea	
Spathodea campanulata	
Spermania ricinocarpa	
Spondianthus preussii	
Stapfiella claoxyloides	
Staudtia	
Steganotaenia araliacea	
Sterculia	
Sterculia dawei	
Sterculia setigera	
Stereospermum	
Stereospermum canthium	
Stereospermum kunthianum	
Strombosia scheffleri	
Strychnos boonei	
Strychnos innocua	
Strychnos mitis	
Strychnos spinosa	
Strychnos usambarensis	
Stylosanthes fruticosa	

Symphonia globulifera	
Syzigium guineense	
Syzygium cordatum	
Syzygium cumminii	
Syzygium guineense	
Tabebuia rosea	
Tabernaemontana holstii	
Tamarindus indica	
Tapianthus burumae	
Teclea angolensis	
Teclea eggelingii	
Teclea grandifolia	
Teclea nobilis	
Teclea trichocarpa	
Tecoma stans	
Tectona grandis	
Terminalia	
Terminalia brownii	
Terminalia glauca	
Terminalia ivorensis	
Terminalia laxiflora	
Terminalia macroptera	
Terminalia mollis	
Terminalia spinosa	
Terminalia superba	
Tetradenia multiflora	
Tetrorchidium didymostemon	
Thevetia peruviana	
Toddalia asiatica	
Toona serrata	
Treculia	
Treculia africana	
Trema orientalis	
Tricalysia bagshawei	
Tricalysia elliotii	
Tricalysia niamniamensis	
Trichilia	
Trichilia dregeana	
Trichilia emetica	

Trichilia martineau	
Trichilia megalantha	
Trichilia prieuriana	
Trichilia roka	
Trichilia rubenscens	
Trilepisium madagascariensis	
Turraea	
Unknown	
Uvariopsis congensis	
Vaccinium stanleyi	
Vangueria	
Vangueria acutiloba	
Vangueria apiculata	
Vangueria linearisepala	
Vangueria tomentosa	
Vepris glomerata	
Vernonia adoensis	
Vernonia amagyadalena	
Vernonia amygdalina	
Vernonia auriculifera	
Vernonia conferta	
Vernonia madagascariensis	
Viscum fischeri	
Vitex amboniensis	
Vitex doniana	
Vitex ferruginea	
Vitex fischeri	
Voacanga thouarsii	
Warbugia ugandensis	
Ximenia americana	
Xylopia aethiopica	
Xymalos	
Xymalos monospora	
Zanha golungensis	
Zanthoxylum	
Zanthoxylum chalybeum	
Zanthoxylum gillettii	
Zanthoxylum mildbraedii	
Ziziphus	

Ziziphus abyssinica	
Ziziphus mucronata	

BASALAREA:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Minimum: 0 Maximum: 3.11 Mean: 0.0118 Standard deviation: 0.0478
 Type: Continuous Decimal: 2 Range: - Format: Numeric

AG_BIOMASS:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Maximum: 39.411 Mean: 0.0572 Standard deviation: 0.44
 Type: Continuous Decimal: 2 Range: - Format: Numeric

BASALAREA_HA:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654 Minimum: 0.00024 Maximum: 28.205 Mean: 0.189 Standard deviation: 0.245
 Type: Continuous Decimal: 2 Range: - Format: Numeric

DIAMETERCLASS:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214654
 Type: Discrete Range: - Format: character

Questions and instructions

CATEGORIES

Value	Category
10 - 19.9	
20 - 29.9	
30 - 39.9	
40 - 49.9	
50 - 59.9	

60 - 69.9	
70+	
<10	

BOLEVOLUME:**Data file: UGA_2016_2019_NBS****Overview**

Valid: 214619 Invalid: 35 Maximum: 16.605 Mean: 0.0288 Standard deviation: 0.151
Type: Continuous Decimal: 2 Range: - Format: Numeric

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