

Data Dictionary for: Uganda biweekly bean survey data

This data dictionary refers to the files:

- Uganda_biweekly_bean_survey_rainfall_rainy_season.csv
- Uganda_biweekly_bean_survey_soil_data.csv
- Uganda_biweekly_bean_survey_data.csv

These data can be obtained from: <http://dx.doi.org/10.25380/iastate.8214428>

No publications have resulted from this study.

ABOUT

A nutrient omission study was conducted on the three primary soils used for common bean in Masaka District, Uganda. The data were compiled to test whether omission of N, P, K, Ca, Mg, Fe, Zn, would result in decreased plant growth, biomass accumulation, or produce deficiency symptoms on black, red, and black-stony soils from Masaka, Uganda. Using the database, we report how N and P omission influenced plant growth, aboveground biomass accumulation, and leaf deficiency symptoms of common bean on three soils. Usage of this dataset has no copyright or propriety restrictions other than citation of the appropriate manuscript.

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TIMELINE

Creation/Collection – January 2014

Last Update – 9 May 2019

Temporal Start – 1 January 2014

Temporal End – December 2015

KEYWORDS

Common bean; farmer survey; Phaseolus vulgaris; bean leaf number; bean yield; stand density; yield components; weed community and density;

FILE CONTENTS

Uganda_biweekly_bean_survey_rainfall_rainy_season.csv

The data table contains 19 columns and 382 rows of information

Name	Label	Type
a01	Year	Discrete
a02	Day of the Year	Continuous
a03	cm precipitation on Farm 1	Discrete
a04	cm precipitation on Farm 2	Discrete
a05	cm precipitation on Farm 3	Discrete
a06	cm precipitation on Farm 4	Discrete
a07	cm precipitation on Farm 5	Discrete
a08	cm precipitation on Farm 6	Discrete
a09	cm precipitation on Farm 7	Discrete
a10	cm precipitation on Farm 8	Discrete
a11	cm precipitation on Farm 9	Discrete
a12	cm precipitation on Farm 10	Discrete
a13	cm precipitation on Farm 11	Discrete
a14	cm precipitation on Farm 12	Discrete
a15	cm precipitation on Farm 13	Discrete
a16	cm precipitation on Farm 14	Discrete
a17	cm precipitation on Farm 15	Discrete
a18	cm precipitation on Farm 16	Discrete
a19	cm precipitation on Farm 17	Discrete

Uganda_biweekly_bean_survey_soil_data.csv

The data table contains 27 columns and 67 rows of information.

Name	Label	Type
b01	Farmer ID	Continuous
b02	Site Number	Discrete
b03	Soil Depth, cm	Discrete
b04	Soil Type	Discrete
b05	Soil Color	Discrete
b06	Extra notes on soil	Discrete
b07	rapid pH	Discrete
b08	Whether depth is restricted	Discrete
b09	pH	Discrete
b10	EC Na	Discrete
b11	P Olsen (ppm)	Discrete
b12	K (ppm)	Discrete
b13	Mg (ppm)	Discrete
b14	Ca (ppm)	Discrete
b15	Na (ppm)	Discrete
b16	CEC	Discrete
b17	Al ppm	Discrete
b18	Mn ppm	Discrete
b19	S ppm	Discrete
b20	Cu ppm	Discrete
b21	B ppm	Discrete
b22	Zn ppm	Discrete
b23	KCl-Al (ppm)	Discrete
b24	Total C	Discrete
b25	Sand (%)	Discrete
b26	Clay (%)	Discrete
b27	Silt (%)	Discrete

Uganda_biweekly_bean_survey_data.csv

The data table contains 27 columns and 71 rows of information.

Name	Label	Type
b01	Farmer ID	Continuous
g01	Rainy season	Continuous
c03	Soil type	Discrete
g02	Depth (cm)	Discrete
g03	yield kg/ha	Discrete
g04	Stand (m ²)	Discrete
g05	Height (cm)	Discrete
g06	Leaf dis (% of leaflets diseased)	Discrete
g07	Nod plant (no. nodules per plant)	Discrete
g08	Red nod (no. red nodules per plant)	Discrete
g09	Total weeds (m ²)	Discrete
g10	pH	Discrete
g11	Mehlich3P (ppm)	Discrete
g12	Mehlich3K (ppm)	Discrete
g13	Extractable Aluminum (ppm)	Discrete
g14	Silt (%)	Discrete
g15	Clay (%)	Discrete
g16	Sand (%)	Discrete
g17	Blackjack (m ²)	Discrete
g18	Pigweed (m ²)	Discrete
g19	Nutgrass (m ²)	Discrete
g20	Sowthistle (m ²)	Discrete
g21	Witchgrass (m ²)	Discrete
g22	Wanderingjew (m ²)	Discrete
g23	Oxalis (m ²)	Discrete
g24	Crabgrass (m ²)	Discrete
g25	Couchgrass (m ²)	Discrete