

Data Entry

New Citation

Author

Heaton, Emily

Title

Meeting US biofuel goals with less land

Journal

Global Change Biology

Doi

10.1111/j.1365-2486.2008.01662.

New Site

Site name

University of Illinois- South Farms / Crop Science Center

Elevation (m)

222

City

Urbana

Lat

40.06

Lon

-88.20

New Treatment

Name

Control

Control

True

New Management

Date

2001

May

15

Management Type

planting (plants / m2)

Level

1

New Yield

Mean

26.0

Date

1

2 - February

Site

783: University of Illinois- South Farms / Crop Science Center

New Trait

Trait Variable

Vcmax (umol CO2 m-2 s-1) - maximum rubisco carboxylation capacity

Cultivar

10: Panicum virgatum Cave-In-Rock

Mean

10.5

Stat

1.78

Statname

SE

N

4

Date

2009

7

23

Date Level of Confidence

5 day

Time

Treatment

743: observational - Planting

Add covariates to this trait

Add

Variable

leafT - degrees C

Level

25

remove

Variable

PAR - umol m-2 s-1

Level

2000

remove

New Bulk Upload

Data File:

Choose File

Sorghum_Ma...ormat.csv

Upload and validate file >>

[View List of Recognized Traits](#)

Data Access and Use

Basic Search

Advanced Search

Download Results

Hide Map

Clear Map

Map

Satellite

25 records per page

Include Unchecked Records

Clear Search

Search: Switchgrass Yield

Site (City)	Date and Time	Species	Cultivar	Trait	Mean	Method	Entity
Morgantown (Morgantown) 39.63° N, 79.95° W	1977 (America/New_York)	Panicum virgatum (switchgrass)	Blackwell	Ayield (annual aboveground yield)	7.40 Mg/ha/yr		
Morgantown (Morgantown) 39.63° N, 79.95° W	1977 (America/New_York)	Panicum virgatum (switchgrass)	Blackwell	Ayield (annual aboveground yield)	6.00 Mg/ha/yr		
Morgantown (Morgantown) 39.63° N, 79.95° W	Week of Jul 23, 1978 (America/New_York)	Panicum virgatum (switchgrass)	Blackwell	Ayield (annual aboveground yield)	7.10 Mg/ha/yr		

Model Predictions

Switchgrass Yield

Switchgrass Yield (grid)

Switchgrass Cost

Switchgrass AET

Miscanthus

Miscanthus Yield

Miscanthus Yield (grid)

Miscanthus Cost

Miscanthus AET

Energycane

Energycane Yield

Energycane Yield (grid)

Energycane Cost

Poplar

Poplar Yield (grid)

Willow

Willow Yield (grid)

Download

rOpenSci traits package

```
> library(traits)
> betydb_search('Miscanthus Yield') %>%
+   select(author, genus, lat, lon, mean, units, sitename, raw_date)
# A tibble: 337 x 8
  author      genus  lat   lon mean  units
*   <chr>      <chr> <dbl> <dbl> <dbl> <chr>
1 Arundale Miscanthus 37.45 -88.67 28 Mg/ha/yr
2 Arundale Miscanthus 37.45 -88.67 38 Mg/ha/yr
3 Arundale Miscanthus 37.45 -88.67 40 Mg/ha/yr
4 Arundale Miscanthus 37.45 -88.67 32 Mg/ha/yr
5 Arundale Miscanthus 37.45 -88.67 41 Mg/ha/yr
```

URL based API

```
https://www.betydb.org/search.json?search=Switchgrass+Yield

access_level: 4,
author: "Lee",
checked: 1,
citation_id: 20,
citation_year: 2007,
city: "South Shore",
commonname: "switchgrass",
cultivar: null,
cultivar_id: null,
date: "September 2004 (America/Chicago)",
dateloc: "6.0",
entity: null,
genus: "Panicum",
id: 1972,
lat: 45.1,
lon: -96.92,
mean: 5.9,
```

Model Parameterization with PEcAn

PFTs

PFT

Miscanthus_x_giganteus

Output

ma.summaryplots.SLA.pdf

Show PFT Output

PEcAn Files

ensemble.output.9900000006

Show File

History

Start Over

summary plots of beta.o for Miscanthus_x_giganteus SLA

The [PEcAn project](#) is supported by