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Biomass
Production In
Switchgrass
Across The United
In
Switchgrass
Across The
United

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across the united**
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include classic literature and books that are obsolete.

Biomass Production In Switchgrass Across

Switchgrass yield as a function of precipitation was variable, and, unlike the pattern seen for biomass yield in relation to temperature, low yields were observed across all values of

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precipitation, with no strong correlation between yield and precipitation in either ecotype . If the upper boundaries of the relationship represent the maximum potential yield, however, low precipitation during the growing season did appear to limit yield.

**Biomass Production
in Switchgrass
across the United
States ...**

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Fundamental to deriving a sustainable supply of cellulosic feedstock for an emerging biofuels industry is understanding how biomass yield varies as a function of crop management, climate, and soils. Here we focus on the perennial switchgrass (*Panicum virgatum* L.) and compile a database that contains 1190 observations of yield

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Switchgrass
from 39 field trials
conducted across the
United States.

Across The United

**Biomass Production
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For example, variants of genes from the lowland ecotype increased biomass production at many of the field sites, or were neutral compared to the variants of genes from the northern

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upland ecotype. These results are helping them sort out the traits and underlying genes to help develop a switchgrass cultivar with high biomass production in multiple planting zones.

Developing Switchgrass for Biomass Production - DOE Joint ...

A survey of publications that reported switchgrass

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Yield data were compiled only for field trials, extracting data from text, tables, and graphs. As noted by Heaton et al. (2004), many studies have been published on switchgrass as

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Switchgrass can be used as bedding for livestock, planted in buffer strips to protect the soil from water erosion, and used as biomass for biofuel production (CRAAQ 2008). According to Delaquis (2013) and Samson (2007), switchgrass is planted on about 1500 ha of cropland in eastern Canada, mostly in Ontario and Quebec.

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Simulating switchgrass aboveground biomass and production ...

Biomass production of irrigated switchgrass differs by N fertilizer and harvest frequency across ecoregions in California, which was reasonably validated. Once established, Alamo and Kanlow (21-24 Mg ha⁻¹ yr⁻¹) produce higher

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Switchgrass
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yields than the other cultivars in fertilized (224 kg N ha⁻¹ yr⁻¹) two-cut systems.

Consequently, Alamo and Kanlow have a potential to facilitate biomass production within the Central Valley of California under the selected management practices.

**Simulating
switchgrass biomass
production across ...**

Switchgrass is

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harvested using conventional haying equipment. An annual cutting in fall or winter suffices for biomass production since its value is based on total tonnage, not nutritional quality. The researchers harvested switchgrass from five CRP fields in southern Wisconsin in August, 1996.

**Switchgrass
production for**

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**biomass (Research
Brief #51 ...**

Switchgrass (*Panicum virgatum* L.), a warm-season perennial grass native to North America, has potential as a biomass energy crop. Our objective was to develop harvest management recommendations for biomass feedstock and forage production. 'Alamo' switchgrass was established in 1992 at Stephenville

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and Dallas, TX.
Switchgrass
**Harvest
Management of
Switchgrass for
Biomass Feedstock**

...

Switchgrass (*Panicum virgatum*) is a native warm-season grass that is a leading biomass crop in the United States. More than 70 years of experience with switchgrass as a hay and forage crop

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switchgrass
will be productive and
sustainable on rain-fed
marginal land east of
the 100th meridian.

Long-term plot trials
and farm-scale studies
in the Great Plains and
plot trials in the Great
Plains, Midwest, South,
and Southeast indicate
switchgrass is
productive, protective
of the environment ...

Switchgrass

(*Panicum virgatum*)

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Read Online Biomass Production In **for Biofuel Production ...**

The Chariton Valley Biomass Project is Iowa's first major switchgrass demonstration project, promoting switchgrass' potential for large-scale production. Iowa imports 98% of the fuels needed to generate energy in the state.

Costs of Producing Switchgrass for

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Biomass in Southern Iowa

Six switchgrass cultivars were grown in southern Wisconsin and eastern South Dakota for 4 yr and harvested each year at three harvest dates (August, September, and October). Cultivars differed widely in biomass yield, but interacted with all environmental factors.

Cultivar x

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**Environment
Interactions in
Switchgrass ...**
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The quantity of biomass produced depends on many factors including: the species considered, climatic conditions, and management practices. Switchgrass (*Panicum virgatum* L.), a native perennial herbaceous grass (see Plate 1), is a promising candidate species for cellulosic feedstock

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**Spatial forecasting
of switchgrass
productivity under**

...

On the other hand, in agreement with our analysis, Miguez et al. (2008), in a modeling study covering 31 sites across Europe, concluded that from the third year after establishment, N fertilization has a

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marginal but significant positive effect on miscanthus biomass production. Significant effects of N-fertilization on mature crops were even more clearly seen in poor soils (sandy coarse soils ...

Switchgrass - an

overview |

ScienceDirect Topics

The southern lowland ecotype of switchgrass is typically found in riparian areas of the

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southern United States, produces large amounts of biomass, and is more nutrient-use-efficient, heat-tolerant, pathogen-resistant, and flooding-tolerant than the northern upland ecotype (26 ↓ ↓ ↓ - 30).

QTL × environment interactions underlie adaptive ...

For biomass production,

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switchgrass can be harvested as a one- or two-cut system.

However, since there is not typically a total yield advantage for the two-cut system and the two-cut system results in more nutrient removal per acre, the one-cut system is likely to be the most economically advantageous.

The Management and Use of

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**Switchgrass in
Georgia | UGA ...**

Biomass yield of
switchgrass generally

increases with year
once it is well

established, and may
take up to three years
to reach its full

production po-
tential.

Depending on the
region, it can typically
produce 1/4 to 1/3 of its
ield potential in the estab-
lishment year and 2/3 of
its potential the year
after planting.

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Nitrogen use in switchgrass grown for bioenergy across the USA

Oakridge National Laboratory and Dartmouth College researchers compiled 1,190 biomass yield observations for both lowland and upland types of switchgrass grown on 39 sites across the U.S. These observations were extracted from 18

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publications that reported results from field trials in 17 states, from Texas to North

Dakota to

Pennsylvania.

Scientists evaluate switchgrass yields across US ...

Switchgrass (*Panicum virgatum* L.) has been planted on land enrolled in the Conservation Reserve Program (CRP).

Management strategies

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for conversion of this
land from CRP to
biomass energy
require...

**(PDF) Management
of Switchgrass-
Dominated
Conservation ...**

As a native, low-input
crop with high biomass
production,
switchgrass (*Panicum
virgatum*) has become
a favorable feedstock
for the production of
cellulosic biofuels in

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the United States.
Many efforts are being
made to improve the
production of cellulosic
biofuels from
switchgrass.

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