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Uncertainty and Operations Research
2015

Uncertain Data Envelopment Analysis

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ISBN: 978-3-662-43801-5 (Print) 978-3-662-43802-2 (Online)

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Journal of Pest Science
March 2012, Volume 85, Issue 1, pp 17-21

Feasibility of solar tents for inactivating weedy plant propagative material

James J. Stapleton

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Abstract

Solar tents, which are safe, inexpensive, and easy to construct, can be used to inactivate unwanted weed plant propagative materials, *on-site*. During two field trials in the San Joaquin Valley of California, from Sept 2 to 7, 2010, solar tents produced small temperature maxima within closed sample bags of 63.5–76.7°C. The mean maximum temperatures within the sample bags were 32.9–42.1°C higher than those of ambient air, and temperatures $\geq 60^\circ\text{C}$ were maintained for 32.2–60.8 h each afternoon during the field trials. Rhizome segments, excavated and excised from a local infestation of the important weed pest *Sorghum halepense* (johnsongrass), were used to evaluate effects of the treatment on weedy plant tissues with vegetative propagation capability. The rhizomes were completely destroyed following confinement within tents for 3 days. Construction useful aftereffect for inactivating weed propagative materials. Potential uses include destruction of quarantined, propagative materials following regulatory roguing interventions in remote locations, or routine roguing of limited scale areas to remove invasive weeds.

+ Communicated by M. Taouag.

Related Content

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Title

Feasibility of solar tents for inactivating weedy plant propagative material

Topics

- Forestry
- Entomology

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Within this Article:

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- Materials and methods
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SpringerLink

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Search/Search Options

The screenshot shows the SpringerLink homepage. Annotations include: 1. Sign up / Log in link; 2. Language selection (English); 3. Search bar; 4. Home, Admin Dashboard, and Contact Us links; 5. Settings gear icon; 6. Browse by discipline menu; 7. Recent Activity section showing various articles and protocols.

- 1 link.springer.com: Log In to be a recognized user
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- 5 Advanced search and help functionality can be accessed by clicking the *settings wheel*
- 6 Browse functionality by subject collection
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Content Type	Resources
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Chapters	1,197,112
Reference Work Entries	272,252
Protocols	29,669

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Search Results Page/Related Documents

The screenshot shows the search results page for 'methods of tapping solar industry'. Annotations include: 1. Search bar; 2. Sort By dropdown; 3. Include preview-only content checkbox; 4. Refine Your Search sidebar.

Content Type	Count
Chapter	604
Article	530
Reference Work Entry	32
Protocol	2

- 3 Uncheck the yellow box – *Include preview-only content* – if you prefer to see only the content accessible by your institution
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 - Subdiscipline
 - Published in
 - Language

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- 1 Type of content
- 2 Download PDF
- 3 View in HTML

Journal Homepage

The screenshot shows the Applied Solar Energy journal homepage. Annotations include: 1. Browse Volumes & Issues link; 2. Search within this journal bar; 3. Latest Articles section; 4. Look inside (preview) button; 5. About This Journal link.

- 1 Search within this journal
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- 3 List of latest articles
- 4 Look inside (preview)
- 5 About this journal