

Drought In Arid And Semi Arid Regions A Multi Disciplinary And Cross Country Perspective

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Drought In Arid And Semi

Drought In Arid and Semi-Arid Regions: A Multi-Disciplinary and Cross-Country Perspective goes a long way toward improving our fundamental understanding of the interactions between physical impacts of drought, and the effectiveness of mitigation policies on the economic consequences of droughts.

Drought in Arid and Semi-Arid Regions | SpringerLink

Offering a cross-country examination and comparison of drought awareness and experience, this book shows how scientists, water managers, and policy makers approach drought and water scarcity in arid and semi-arid regions of Spain, Mexico, Australia, South Africa and the United States.

Drought in Arid and Semi-Arid Regions - A Multi ...

Drought is one of the most significant environmental disasters, especially in arid and semi-arid regions. Drought indices as a tool for management practices seeking to deal with the drought phenomenon are widely used around the world. One of these indicators is the Palmer drought severity index ...

Prediction of meteorological drought in arid and semi-arid ...

VHI is considered as one of the robust satellite-derived agricultural drought monitoring indices, especially used in arid, semi-arid, and sub-humid climatic regions (Gidey et al., 2018). In the present study, the monthly VHI for the growing season for dry (2001) and wet years (2007) was computed from VCI and TCI, by using the following equation: (5) VHI = a × V C I + 1 - a × T C I

Monitoring of agricultural drought in semi-arid ecosystem ...

Drought in Arid and Semi-Arid Regions : A Multi-Disciplinary and Cross-Country Perspective. Hardcover by Schwabe, Kurt (EDT); Albiac, Jose (EDT); Connor, Jeffery D. (EDT); Hassan, Rashid M. (EDT); Gonzalez, Liliana Meza (EDT), ISBN 9400766351, ISBN-13 9789400766358, Brand New, Free shipping in the US Offering a cross-country examination and comparison of drought awareness and experience, this ...

Drought in Arid and Semi-Arid Regions : A Multi ...

Arid and semi-arid regions are more responsive to drought, as arid and semi-arid climate are more sensitive to deficiency in rainfall and temperature extremes (Bhuiyan, 2008). In 21st-century, extreme climate events are amplified in frequency and magnitude (Parry et al., 2007).

Impact of drought on vegetation carbon storage in arid and ...

However, research to date has focused on tree vulnerability to drought in forests. Less is known about trees and drought in savannas, where a sparse tree layer coexists with gra ... Severe drought limits trees in a semi-arid savanna Ecology. 2019 Nov;100(11):e02842. doi: 10.1002/ecy.2842. ...

Severe drought limits trees in a semi-arid savanna

On the one hand, drought is physiologically stressful, which could harm trees and be exacerbated by herbivore impacts; on the other hand, trees adapted to semiarid savannas might be relatively drought tolerant, and the considerable impacts of drought on grass could even benefit trees via reduced grass competition and fire risk, especially in the year following a drought.

Severe drought limits trees in a semi-arid savanna - Case ...

Small-scale rain-fed agriculture is the main livelihood in arid to semi-arid regions of sub-Saharan Africa. The area is characterised by erratic rainfall and frequent droughts, making the capacity for coping with temporal water shortages essential for smallholder farmers. Focusing on the Zambezi Val ...

Adaptation to drought in arid and semi-arid environments ...

Drought Index is developed to be used in semi-arid and arid regions over the world. This drought index is based on both cumulative precipitation (P) and potential evapotranspirat ion (PET).

(PDF) Drought assessment and monitoring using ...

The Zambezi Valley is a semi-arid to arid region located in agro-ecological region IV. The region is characterised by low annual precipitation of 450 mm - 650 mm, seasonal droughts and severe intra-season dry spells.

Adaptation to drought in arid and semi-arid environments ...

In India, about 15.8% (50.8 Mha) of the geographical area is arid and nearly 37.6% (123.4 Mha) is characterized by semiarid climatic conditions (Ajai et al. 2009).Therefore, drought is one of the major disasters, as it affects the agrarian economy of the country.

Droughts and Agriculture in the Semi-Arid Region of ...

Drought In Arid and Semi-Arid Regions: A Multi-Disciplinary and Cross-Country Perspective [Kurt Schwabe, Jose Albiac, Jeffery D. Connor, Rashid M. Hassan, Liliana Meza González] on Amazon.com. *FREE* shipping on qualifying offers. Offering a cross-country examination and comparison of drought awareness and experience, this book shows how scientists

Drought in Arid and Semi-Arid Regions: A Multi ...

In order to test the impact of changes in drought conditions on the population growth rate of ungulate species in arid and semi-arid areas, we developed four potential predictor variables of drought: the total number of months of the preceding year (T), and the preceding two years (T + 2), in which q<8; the maximum number of consecutive months of the preceding year (C), and the preceding two ...

Predicting the Future Impact of Droughts on Ungulate ...

AH Swemmer, Locally high, but regionally low: the impact of the 2014–2016 drought on the trees of semi-arid savannas, South Africa, African Journal of Range & Forage Science, 10.2989/10220119.2020.1723696. 37, 1, (31-42), (2020).

Severe drought limits trees in a semi-arid savanna - Case ...

Faria catchment (320 km 2), located in the northeastern part of the West Bank, Palestine, is one of these arid to semi-arid catchments where recently, the prolonged drought periods in the catchment and the increasing water demand have made the existing obtainable water resources vulnerable.

Spatio-temporal Drought Analysis in Arid and Semi-arid ...

Abstract Arid and semi-arid regions of China (ASRC) are increasingly threatened by drought. Especially when drought and heat extremes coincide, the resultant impact would be even more harmful to ...

(PDF) Changes of concurrent drought and heat extremes in ...

In addition, the small-scale diversity of this semi-arid savanna may be driven more by resource availability than light-competition in the short-term. Managers and ecologists can use these results to help disentangle the ecosystem functioning that may be observed in the presence of future droughts, nitrogen deposition and prescribed fire.

Semi-arid savanna herbaceous production and diversity ...

Drought is a common occurrence in arid and semi-arid (ASA) regions, with regions such as Australia's Murray-Darling River Basin (MDB, Figure 1) experiencing significant droughts once every ten years on average.

Choices Magazine Online

Arid and semi-arid regions of China (ASRC) are increasingly threatened by drought. Especially when drought and heat extremes coincide, the resultant impact would be even more harmful to human society and the natural environment. This study investigates the spatio-temporal changes in concurrent drought and heat extremes in ASRC during 1961 ...