Can caragana korshinskii be cleaned and stored

Is Caragana korshinskii a good plant for soil erosion control?
The primary exotic shrub species,Caragana korshinskii,which reaches a height of 80-130 cm,is a good option for soil erosion controland is very common across the Loess Plateau (Chen et al.,2007; Wang et al.,2009; Yang et al.,2012). The C. korshinskii studied was planted around 1985 and is now mature.

Does the Caragana korshinskii have a carbon fixation capacity?
In this study, five experimental sites characterised by gradual reductions in precipitation from south to north across the Loess Plateau were used to evaluate the Caragana korshinskii 's functional and physiological features, particularly its carbon fixation capacity, as well as the relationships among these features.

Is korshinskii a dominant species in dryland ecosystems?
Our results confirm C. korshinskii is the optimal dominant speciesfor the reconstruction of fragile dryland ecosystems. The patterns of organic carbon storage associated with this shrub occurred mostly in the soil at wetter sites,and in the branches and leaves at drier sites across the arid and semi-arid region.

Does korshinskii increase soil carbon and nitrogen storage?
In the study,the results showed that the soil carbon and nitrogen storage (0-120cm) in the level ditch were decreasedunder C. korshinskii planted for 17years but increased under that for 28years and 36years compared with natural restored slope (Fig. 5).

Does korshinskii reduce water storage in a level ditch?
In the study,compared with grass slope,C. korshinskii significantly decreasedthe soil water storage (0-4m) in the level ditch (Fig. 3). This could be ascribed to its well-developed root systems and fast growth or expansion (Chai et al.,2019).

Is korshinskii more resistant to drought than gmelinii?
On the basis of the more flexible water use strategy and low mortality rate for the CKK,it appears that the exotic shrub C. korshinskii is more resistantto extreme natural drought than the native shrub A. gmelinii.

Caragana korshinskii shrubs are widely planted in desert steppe of Northwest China to mitigate desert encroachment. Soil nutrients and stoichiometries reflect the cycling of soil organic matter in ecosystems. Thus, there is a dynamic balance between soil nutrients and stoichiometries due to the establishment of Caragana shrubs in this region. Here, soil nutrients ...

Mongolia Autonomous Region, there are 920,700 hm2 of Caragana korshinskii Kom. forest resources, which can produce 5.524 million tons of fresh branches. According to the parallel cropping, the annual output of fresh Caragana korshinskii Kom. is about 1.84 million tons. Caragana korshinskii Kom. has a strong ability of branching and regeneration ...

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The present study lays a solid foundation for further exploring the utilization of C. korshinskii in ruminant husbandry. Keywords: obesity; mRNA; tissue varieties; Ovis of C. korshinskii grow rapidly, possess high biomass and are extremely rich in various amino acids and Caragana korshinskii has been widely used in

An eco-friendly supercritical CO 2 (scCO 2)-ethanolysis system was designed to convert Caragana korshinskii (Ck) into valuable bio-oils.Hydrocarbons and O-containing moieties (CH and O classes) in derived soluble portions (SPs) were evaluated in detail.The results show that scCO 2-ethanol has synergistic degradation ability and strong permeability to complex ...

Abstract: Coating seeds with water absorbent materials can improve their survival, especially for those planted in drought or barren areas. In this study, effects of five kinds of super absorbent polymers (SAPs) on seed germination and seedling growth of Caragana korshinskii under drought conditions were investigated. Our results showed that SAP coatings could significantly ...

Caragana korshinskii (C.K.), as one of the most important plants for sand fixation, can improve desertification in Western China [1] [2][3], and plays an important role in the management of ...

The components exert synergistic effects and can effectively enhance the quality aspects of silaged Caragana korshinskii. This research provides theoretical underpinnings for the utilization of ...

C. korshinkii is known to conserve water and soil, and to control land desertification (Yang, 2001, Yang et al., 2006). However, little is known about the difference in water ...

Our results confirm C. korshinskii is the optimal dominant species for the reconstruction of fragile dryland ecosystems. The patterns of organic carbon storage ...

Caragana korshinskii Kom.:???????? Caragana arborescens Lam.:????????Siberian peashrub?Caragana Caragana(?????)??80-100???????????????? ...

Caragana korshinskii C. korshinskii is native to the arid desert regions of northwestern China and is a valuable species for afforestation and ecological rehabilitation. This hardy plant has a well-developed root system, making it ...

The aims of this paper were to develop a water uptake model for single Caragana Korshinskii individual and to validate the model with soil water content in a plantation. Tube-time domain reflectometry (TDR) was used to measure soil ... recorded at 10-s intervals and stored as 30-min averages. SOIL MOISTURE DYNAMIC 573 Fig. 1. The sketch ...

Our results confirm C. korshinskii is the optimal dominant species for the reconstruction of fragile dryland

ecosystems. The patterns of organic ...

Furthermore, the correlation between leaf biomass and branch biomass in Caragana korshinskii and Sophora viciifolia indicates that the components of above-ground biomass are closely related to ...

Korshinsk peashrub (Caragana korshinskii Kom.) was planted in Yan-chi, China (107.40 E, 38 33"N, elevation 1600 m) in 2014 and har- ... were stored at 20 C for further analysis, while the rest ...

Caragana korshinskii is one of the important spe-cies for sand fixation in northwest china, which is charac-terized by drought resistance, cold resistance and high tem-perature resistance. In this study, we monitored the fluxes of h 2 O 2 and oxygen with seed germination and seed vigor of C. korshinskii by nmT. After establishing the correla-

Based on stepwise regression analysis, shrub volume and slope significantly impacted water storage and carbon/nitrogen storage, respectively. The significant differences ...

Keywords: Caragana korshinskii; Chlorophorus caragana; amino acid; carbohydrate and mineral element; protein Introduction Caragana korshinskii is a type of deciduous shrub that belongs to the Caragana genus (Leguminosae). Most species of Caragana are resistant to both cold and high temperatures, as well as drought, and possess strong ...

?(:Caragana korshinskii Kom.)?,,1-4;,;?6-8;,3-7,;3-5,;,7-8,2-7, ...

Caragana korshinskii ,1~3m?,?,;?6~8;,;;,, ...

The increased proportion of isotope ratios with sand-fixing time was higher in Artemisia ordosica revegetation areas than Caragana korshinskii revegetation areas (Fig. 4). Caragana korshinskii is a multiple-stemmed shrub with smooth stems and ovate leaves, while Artemisia ordosica is a highly branched dwarf-shrub with a rough stem and needled ...

,Caragana korsh inskii, ,?

C. korshinskii is a long-lived shrub (>50 years) native of arid environments in Northwest China that possess a high economic and ecological value (Fang et al. 2017, Waseem et al. 2021, Yao et al ...

Caragana korshinskii Kom is of high lignifications after growing for a few years and the toughness of it is considerably high. Currently in China, equipments of harvesting and processing for ripe crops can hardly finish the mechanized production for Caragana ...

The perennial Caragana korshinskii Kom is a potential feedstock for producing heat fuels. This study aims to

investigate the influence of pressure, temperature, moisture content and particle size on the physical properties (density, durability, compressive strength and impact resistance) of C. korshinskii Kom briquettes. A piston-and-mold process was used to densify ...

Additionally, it can be inferred that the larger root systems of the 30-year-old Caragana korshinskii in the shallow soil contributed substantially (Wang et al., 2021a). Deng et al., 2017, Wang et al., 2021a reported the greatest root biomass of C. korshinkii at 35 years old and 30 years old in the study area, respectively.

Flexible water use patterns are of great importance for the survival of vegetation in dryland regions. Our study aimed to investigate the influences of season and slope aspect on the water use patterns of Caragana korshinskii on typical shady and sunny slopes on the Loess Plateau in China. We collected xylem water, soil water from the 0-200 cm soil layers, and ...

The research shows that the compound bacterial and enzymatic preparation is more effective than the single-component. The components exert synergistic effects and can effectively enhance the quality aspects of silaged Caragana korshinskii. This research provides theoretical underpinnings for the utilization of Caragana korshinskii as feedstuff.

We assessed the successional development of above- and belowground ecosystem biomass and carbon (C) pools in an age-sequence of four White pine (Pinus strobus L.) plantation stands (2-, 15-, 30-, and 65-years-old) in Southern Ontario, Canada.Biomass and C stocks of above- and belowground live and dead tree biomass, understorey and forest ground ...

Horizontal and vertical distribution of coarse roots of Caragana korshinskii. Figure represents the average coarse-root length density and weight density per unit of soil volume for each 0.2 9 0.2 ...

Exotic shrub species (Caragana korshinskii) is more resistant to extreme natural drought than native species (Artemisia gmelinii) in a semiarid revegetated ecosystem

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