Ecosystem services of rangeland/grassland: II. Items of Ecosystem services of rangeland/grassland

HU Zi-zhi (Pratacultural College, Gansu Agricultural University, Gansu Lanzhou 730070)

Items of ecosystem services of rangeland/grassland, such as gas regulation, climate regulation, disturbance regulation, water regulation, soil formation, nutrients obtaining and circulation, waste treatment, pollination and seeds disseminating, gene resources, habitat, biological control, raw and processed materials production, forage and food production, recreation, culture and education are reviewed and narrated in the present paper based on characteristics and specific conditions of products and support functions of life system of rangeland/grassland according to the ecosystem services which divided by R. Costanza (1997).

【Key Words】: Rangeland/grassland ecosystem services

【Fund】: Gansu Province Natural Science Foundation of China 10108014, 10108015

【CateGory Index】: S812

Ecosystem services of rangeland/grassland: III. Value and meanings

HU Zi-zhi (Pratacultural College, Gansu Agricultural University, Gansu Lanzhou 730070)

Value and meanings of ecosystem services of rangeland/grassland incurred from global change, such as economic benefits, the regulation of ecologic and resource, the protection of national security and the development and protection of industry and agriculture are reviewed and narrated in the present paper based on literature, data and experience.

【Key Words】: Ecosystem services of rangeland/grassland, Global change, National security

【Fund】: The National Social Science Foundation of China (05&ZD007, 06&ZD137)

【CateGory Index】: S812

Features of alfalfa production in humid area of subtropical zone in Sichuan

LIU Rui-feng, ZHANG Xin-quan, LIU Jia (College of Life Sciences, Sichuan Agricultural University, Ya'an 625014, China; 5. Sanjiangchong Sheep Breeding Farm of Qinghai Province, Gungcha 812300, China)

Features of alfalfa production in humid area of subtropical zone in Sichuan are studied. Results show that alfalfa growth is rapid with high forage yield. The growth and the yield of alfalfa are affected by the factors such as soil type, rainfall, fertilizer and the quality of seeds. The results indicate that alfalfa cultivation and forage production in humid area of subtropical zone in Sichuan is a great potential for the production of forage.

【Key Words】: Alfalfa production, Humid area of subtropical zone, Sichuan

【Fund】: Project of studying grassland from over grazing

【CateGory Index】: S812

Features of grassland steppe under moderate and heavy degradation in Qinghai Province

JIN Liang 1, 2, YAO Yun-feng 2, ZHANG Wen-juan 2, SUN Lei 1, WU Gao-lin 2, WEI Xue-hong 1, SIQUE Duo-ji 1

Grassland steppe under moderate and heavy degradation in Qinghai Province is studied in this paper. Results show that grassland steppe under moderate and heavy degradation in Qinghai Province is affected by the factors such as climate, geology, environment and human activities. The results indicate that grassland steppe under moderate and heavy degradation in Qinghai Province is a great potential for the production of forage.

【Key Words】: Grassland steppe, Degradation, Qinghai Province

【Fund】: Project of studying grassland from over grazing

【CateGory Index】: S812

References

1. HU Zi-zhi (Pratacultural College, Gansu Agricultural University, Lanzhou 730070, China): Ecosystem services of rangeland/grassland: III. Value and meanings [J]. Grassland and Turf, 2005-02

2. WANG Xiao-li 1, ZHANG Li-hui 2, ZHANG De-gang 2, GAN You-min 2, XU Guang-ping 2, GUAN Que-xi 2, DENG Chun-hui 2, SIQUE Duo-ji 1

3. LIU Rui-feng, ZHANG Xin-quan, LIU Jin-ping (Department of Grassland Science, Sichuan Agricultural University, Ya'an 625014, China; 5. Sanjiangchong Sheep Breeding Farm of Qinghai Province, Gungcha 812300, China): Study on comparison of underground phytomass of Stipa purpurea steppe under moderate and heavy degradation [J]. Grassland and Turf, 2006-04

4. SUN Lei 1, WU Gao-lin 2, WEI Xue-hong 1, SIQUE Duo-ji 1

5. JIN Liang 1, 2, YAO Yun-feng 2, ZHANG Wen-juan 2, SUN Lei 1, WU Gao-lin 2, WEI Xue-hong 1, SIQUE Duo-ji 1

6. PU Hua, WANG Ji-min, ZHENG Yan (Institute of Animal Sciences, CAAS, Beijing 100193, China): Problem and policy suggestions of the project of restoring grassland from over grazing [J]. Grassland and Turf, 2008-05

7. WEN Long-ying 1, 2, HUANG Zu-how 2, ZHANG Zhi-jin 1, YANG Yong-wei 3, LIU Yuan-xin 3, LIU Nai-fa 2, 3 (College of Chemistry and Life Sciences, Leshan Teachers College, Leshan 614004, China; 2. College of Life Sciences, CAAS, Lanzhou 730000, China; 3. Key Laboratory of National Eutrophication and Natural Drought, Lanzhou University, Lanzhou 730070, China)

Ecosystem services of rangeland/grassland: II. Items of Ecosystem services of rangeland/grassland—(Grassland and Turf) 2005年01期

【Citations】

Chinese Journal Full-text Database 1 Hits

HU Zi zhi (Pratacultural College, Gansu Agricultural University, Lanzhou, Gansu, 730070); The Importance of Artificial Grassland in the Development of Praticulture and the Control of Environment in China of 21 Century [J]; GRASSLAND AND TURF: 2000-01

【Co-citations】

Chinese Journal Full-text Database 10 Hits

MA Yu-hua et al (Northwest Plateau Institute of Biology, the Chinese Academy of Sciences, Xining, Qinghai 820008); Research Advances in a Tibetan Medicine-Gentiana straminea [J]; Journal of Anhui Agricultural Sciences: 2005-09

LIU Xiang-hua (College of Economics and Management, Henan Agricultural University, Zhengzhou, Henan 450002); Analysis of Economic Causation of Valuation Predicament of Ecosystem Services [J]; Journal of Anhui Agricultural Sciences: 2007-26

WANG Yue-jian et al (Department of Geography, Normal College, Shihezi University, Shihezi, Xinjiang 832003); Analysis of the Land-using and Environmental Effect in the Middle Reach of the Tarim River [J]; Journal of Anhui Agricultural Sciences: 2008-15

ZHU Xue-qun et al (School of Economics & Management, Beijing Forestry University, Beijing 100083); Review and Prospective of Carbon Cycle of Terrestrial Ecosystem [J]; Journal of Anhui Agricultural Sciences: 2008-24

BAO Wen (School of Finance and Economics, Chengdu University of Information Technology, Chengdu, Sichuan 610225); Discussion on the Development Potential of Grassland Resources in the Mountainous Areas of China [J]; Journal of Anhui Agricultural Sciences: 2009-11

BAO Wen (Commercial College, Chengdu University of Information Technology, Chengdu, Sichuan 610225); Ecological Security and Overall Development of Forest and Grassland Resources [J]; Journal of Anhui Agricultural Sciences: 2009-20

QU Guosheng (Ankang Teachers' College, Ankang 725000, Shaanxi, China); On the Stable System of the Agriculture in Ankang [J]; Journal of Ankang Teachers College: 2005-04

Ye Janhua Deng Fengming (Department of Sport, Central South Forestry University, Changsha Hunan 410005); Discussion on Exploitation and Construction of Ecological Sport Parks in Cities [J]; Journal of Ankui Sports Science: 2005-02

LI Wen-zeng, LI Kun-tao (Zhengzhou Teachers' College, Zhengzhou 450044, China); Transposition Reflection upon Biological Diversity and Species Depopulation [J]; Journal of Anyang Teachers College: 2004-02

Anwar MOHAMMAT2), 3) YANG Yuanhe2) GUO Zhaodi2) FANG Jingyun2) (2) Department of Ecology, College of Environmental Sciences, and Key Laboratory for Earth Surface Processes of the Ministry of Education, Peking University, Beijing, 100871; 3) Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences, Urumqi, 830011; Grassland Aboveground Biomass in Xinjiang [J]; Acta Scientiarum Naturalium Universitatis Pekinensis: 2006-04

【Co-references】

Chinese Journal Full-text Database 10 Hits

ZHANG Guang fu 1, GUO Chuan you 2 (1. Nanjing Institute of Geology and Palaeontology, Academia Sinica, 210008, Nanjing, Jiangsu, China; 2. Huaibei Coal Normal College, 235000, Huaibei, Anhui, China); STUDIES ON THE HISTORY OF RESTORATION ECOLOGY [J]; Journal of Anhui Normal University (Natural Science): 2000-04

Yang Zhenniang (Lanzhou Institute of Glaciology and Geocryology, Chinese Academy of Sciences); Glacier Water Resources of Qilian Mountains [J]; Journal of Glaciology and Geocryology: 1988-01

CHEN Dong-jing, XU Zhong-min, CHENG Guo-dong, ZHANG Zhi-qiang (State Key Laboratory of Frozen Soil Engineering, CAREERI, CAS, Lanzhou Gansu 730000, China); Ecological Footprint in Northwest China [J]; Journal of Glaciology and Geocryology: 2001-02

CHEN Dong'jing; XU Zhong'lin (State Key Laboratory of Frozen Soil Engineering, CAREERI, CAS, Lanzhou Gansu 730000, China); Energy Analysis of Agricultural Eco-Economic System in Arid Region of Northwest China—A Case Study of Zhangye Prefecture in Heihe River [J]; Journal of Glaciology and Geocryology: 2005-01

ZHANG Yan-juan, SHEN Yi-xin (College of Animal Science and Technology, Nanjing Agricultural University, Jiangsu Nanjing 210095, China); Difference of production performance of alfalfa varieties grown on winter-fallow farmland in Nanjing [J]; Pratacultural Science; 2010-02

©2006 Tsinghua Tongfang Knowledge Network Technology Co., Ltd. (Beijing) (TTKN) All rights reserved