



Home | Journal Papers | About CNKI | User Service | FAQ | Contact Us | [中文](#)

Full-Text Search :

《Scientia Silvae Sinicae》 2008-11

[Add to Favorite](#) [Get Latest Update](#)

**Similar Journals**

- > Resources Science
- > Territory & Natural Resources Study
- > Chinese Journal of Applied Ecology
- > Journal of Dialectics of Nature
- > Bulletin of Biology
- > Ecological Economy
- > Chinese Journal of Ecology
- > Science & Technology Information
- > Technology Economics
- > Journal of Shaanxi Meteorology

# Economical Assessment of the Lose's Value Brought by the Blizzard and Frozen Disasters to the Forest in the Ecosystem Services — — Take the Disaster Forest of Fujian Province as the Example

Xu Fenglan<sup>1</sup> Qian Guoqin<sup>2</sup> Yang Lunzeng<sup>1</sup>(1.Forestry College,Fujian Agriculture and Forestry University Fuzhou 350002;2.World Bank Loan Project Management Office of Afforestation,Fujian Province Department of Forestry Fuzhou 350003;3.Economic and Management College,Fujian Agriculture and Forestry University Fuzhou 350002)

Firstly,the assessment index system for the economical loss brought by the blizzards and frozen to the forest ecosystem in the functional value of ecological environment services were established and the estimating methods for the various index wer e ascertained,according to the principles and methods of environmental economics.And then put to calculate the value of asses sment indicators through the methods of quantitative and semi-quantitative converting,in order to reflect the loss of ecological functions value in the monetary form and achieve the goal of quantitative evaluation.At the same time,evaluated empirically th e value loss,taking the disaster-stricken forest in Fujian province as an example,the results show that the indirect economic loss brought by 2008' blizzard and frozen disasters to Fujian provincial forest in water conservation,soil conservation,carbon seques tration release oxygen,purify air,biodiversity conservation,and other ecological functions value were 10.790 6,8.022 8,5.261 7, 2.778 2 and 0.072 0 million yuan yearly,a total of the indirect economic loss in the value of ecosystem services reached 26.925 3 billion yuan yearly,and the direct economic loss brought by 2008 blizzard and frozen disasters to Fujian provincial forestry i n provision of forest products is 4.597 5 billion yuan.The results indicated that the indirect use value loss of forest in ecologica l environment services is far greater than the value loss of the direct provision of forest products.

【Key Words】 : **blizzard and frozen disasters forest ecosystem ecological service value lose economic analysis**

【CateGory Index】 : S761;F326.2



[Download\(CAJ format\)](#)



[Download\(PDF format\)](#)

CAJViewer7.0 supports all the CNKI file formats; AdobeReader only supports the PDF format.

**【References】**

Chinese Journal Full-text Database

1 Hits

1 HUANG Chao-fa<sup>1,2,3</sup>,ZENG Hong-da<sup>1,2</sup>,LIU Ju-rong<sup>3</sup>,WENG You-heng<sup>3</sup>(1.Fujian Key Laboratory of Subtropical Resources and Environment,350007,Fuzhou,China;2.School of Geographical Sciences,Fujian Normal University,350007,Fuzhou,China;3.Forest Plan and Design Office,Fujian Province Forestry Investigation and Plan Institute,350003,Fuzhou,China);**Appraisal and Analysis on the Loss of Carbon Storage at Arbor Stratum of Forest Caused by Ice-Snow Disaster**[J];Journal of Subtropical Resources and Environment;2009-02

**【Citations】**

Chinese Journal Full-text Database

10 Hits

1 Xu Qiao He Mengchang Yang Zhifeng Yu Jingshan Mao Xianqiang (Institute of Environmental Sciences, State Key Laboratory of Environment Simulation and Pollution Controls, Beijing Normal University , Beijing 100875);**ASSESSMENT ON URBAN ECOSYSTEM SERVICES OF GUANGZHOU CITY**[J];Journal of Beijing Normal University(Natural Science);2003-02

Lin Guangyao(Forestry Department of Fujian Collese of Forestry,Nanping 353001)Lin Degen(The Forestry Department of Fujian Province Fuzhou 350002)Yuan Xuejun(Forestry Department of Fujian College of

- 2 Department of Fujian Province,Fuzhou 350005) Tang Fusheng(Forestry Department of Fujian College of Forestry,Nanping 353001);[Water Conservation Function of Main Forest Types Along Upper Reaches of Mingjiang River](#)[J];JOURNAL OF FUJIAN COLLEGE OF FORESTRY;1995-01
- 3 Zhang Huajun;[Assessment of Environment & Economic Loss from Ecological Damage due to Road Project](#)[J];Technology of Highway and Transport;2006-01
- 4 XIE Hong(1.Fujian Yong'an Forestry(Group)Joint-Stock Co Ltd,Yong'an,Fujian 366000 China);[Economic Analysis on the Forest Ecosystem Services of Yong'an Forestry Management Area of Fujian Yong'an Forestry\(Group\) Joint-Stock Co Ltd](#)[J];Problems of Forestry Economics;2007-06
- 5 Zhang Xiaohong Yang Zhifeng Mao Xianqiang He Mengchang Yu Jingshan(State Key Laboratory of Environment Simulation and Pollution Control, Institute of Environmental Sciences, Beijing Normal University Beijing 100875);[Study on Ecological Benefits of Public Forest and Countermeasures, Guangzhou](#)[J];Scientia Silvae Sinicae;2004-04
- 6 Zhou Xiaofeng (Forest Resource and Environment College, Northeast Forestry University\ Harbin150040) Jiang Minyuan (Economic Management College, Northeast Forestry University\ Harbin150040);[QUALIFICATION, EVALUATION, AND COMPENSATION FOR FOREST BENEFITS IN HEILONGJIANG PROVINCE](#)[J];SCIENTIA SILVAE SINICAE;1999-03
- 7 Li Shaoning1,Wang Bing2,Guo Hao2,Qu Hui3,Li Binbin4, Zhang Lirong5 (1.The Forestry and Pomology Institute,Beijing Academy of Agriculture and Forestry Sciences,100093,2.Research Institution of Forest Ecology,Environment and Protection,CAF,100091: Beijing;3.Research Institute of Liaoning on Economic Tree,116031,Dalian,Liaoning;4.Afforestation Research Institute of Liaoning in Arid Zones,122400,Jianping,Liaoning;5.Zhangjiakou Vocational Technical College,075000,Zhangjiakou,Hebei: China);[Assessment of forest ecosystem services value in Dagangshan](#)[J];Science of Soil and Water Conservation;2007-06
- 8 YU Xin-Xiao+1,QIN Yong-Sheng+2,CHEN Li-Hua+1,LIU Song 2 (1.Soil and Water Conservation College of Beijing Forestry University,Beijing 100083,China;2.Beijing Forestry Bureau,Beijing 100029,China). Acta Ecologica Sinica,2002,22(5):783~786.;[The Forest Ecosystem Services and Their Valuation of Beijing Mountain Areas](#)[J];Acta Ecologica Sinica;2002-05
- 9 FU Jin-mu, HE Guang-min (Suzhou Teachers College,Souzhou Anhui 234000) (No. 2 High School of Huai-yuang,Bengbu Anhui 233000);[Reseach on Analysis Method of Economic Loss Caused by Environment Distraction](#)[J];Journal of Suzhou Tenchers College;2002-04
- 10 ZI Chun?Xia,LI Shu?Qing(College of Resources and Environmental Sciences,Chongqing University,Chongqing 400030,China);[Study on the economical loss of ecological damage by the construction of express ways.](#)[J];Chinese Journal of Eco-Agriculture;2005-02

## [Co-citations]

Chinese Journal Full-text Database

10 Hits

- 1 MAN Ming-jun et al(Economics and Management College of Northwest A & F University,Yangling,Shaanxi 712100);[Evaluation of Eco-Economic Benefit of Farmland Returned for Woodland in Shaanxi Province](#)[J];Journal of Anhui Agricultural Sciences;2006-18
- 2 YU Qian-long (Business School,Shihezi University,Wujiaqu,Xinjiang 831300);[Quantitative Study of Ecological Assets of Urban Forest Ecosystem in Urumqi](#)[J];Journal of Anhui Agricultural Sciences;2007-22
- 3 LEI Zheng-yu et al (Hubei Vocational College of Ecological Engineering,Wuhan,Hubei 430200);[Study on the Plant Flora in Shangshehu Wetland Nature Reserve](#)[J];Journal of Anhui Agricultural Sciences;2008-31
- 4 DU Peng et al(Guangzhou Institute of Geochemistry,Chinese Academy,Guangzhou,Guangdong 510640);[Economic Value Assessment of Forest Ecosystem Service Function in Jiangmen of Guangdong Province from 2001 to 2006](#)[J];Journal of Anhui Agricultural Sciences;2009-16
- 5 GUO Qi-qiang et al(Institute of Plateau Ecology,Linzi,Tibet 860000);[Value Evaluation of the Forest Ecosystem Service Function in the Linzhi Area of Tibet](#)[J];Journal of Anhui Agricultural Sciences;2009-18
- 6 ZHU Ya-li et al(Central South University of Forestry & Technology,Changsha,Hunan 410004);[Dynamic Assessment on Eco-efficiency Loss Caused by Forestric Harmful Plants](#)[J];Journal of Anhui Agricultural Sciences;2009-19
- 7 LIU Ju-mei et al(College of Resources and Environmental Sciences,Lanzhou University,Lanzhou,Gansu 730000);[Study on the Ecological Environment Changes and Farmland Loss Problem in the Construction of Industrial Park](#)[J];Journal of Anhui Agricultural Sciences;2009-19
- 8 WANG Hong-cui 1,2, WU Cheng-zhen 1,2, HONG Wei 1,2, HE Dong-jin 1,2, LIN Qin-qin 1,2, WANG Ping-lan 1,2, CHEN Can 1,2( 1 Forest College, Fujian Agriculture and Forest University, Fuzhou 350002, China; 2 Institute of Forest Ecology, Fujian Agriculture and Forest University, Fuzhou 35002,China);[Estimation for value of ecosystem services in Wuyishan Scenery District](#)[J];Journal of Safety and Environment;2006-02
- 9 DUAN Xiaofeng XU Xuegong (College of Environment, Peking University & The Main Lab of Ministry of Education Research on Analysis and Simulation of The Earth's Surface Process, Beijing, 100871);[Regional Forest Ecosystem Services Assessment: A Case Study of Shandong Province](#)[J];2006-02
- 10 Li Qinglan1, Ren Jun1, Xu Jiangkun2, Tao Ling1(1.Institute of Environmental Ecology Environmental science and municipal engineering of Lanzhou Jiaotong University,Lanzhou 730070,China;2.Jiangsu Xinyuan Environmental Engineering Co., Ltd,Nanjing 210004,China);[Economic Value of Urban Vegetation Ecosystem Services: A Case](#)

protection Co.,Ltd.,Nanjing 210004,China);Economic value of Urban Vegetation Ecosystem Services.A Case Study in Lanzhou[J];Environmental Science and Management;2008-01

## China Proceedings of conference Full-text Database

9 Hits

- 1 HUANG Heping1, XIE Xiaoying2 (1. School of Resources and Environmental Management, Jiangxi University of Finance & Economics, Nanchang 330032; 2. Library of Jiangxi University of Finance & Economics, Nanchang 330013);Ecological Civilization of China's Forestry Sustainable Management in the New Century[A];[C];2008
- 2 Qin Wei, Zhu Qingke (College of Soil and Water Conservation, Beijing Forestry University; Key Laboratory of Soil and Water Conservation and Combating Desertification, Ministry of Education, 100083, Beijing, China);Review of soil conservation value by forest in green gross domestic products accounting[A];[C];2006
- 3 Huang Heping Xie Xiaoying 1.School of Resources and Environmental Management,Jiangxi University of Finance & Economics,Nanchang 330032; 2.Library of Jiangxi University of Finance & Economics,Nanchang 330013;Ecological Civilization of China's Forestry Sustainable Management in the New Century[A];[C];2008
- 4 TIAN Zhi-hui~(1,2)ZHENG Da-wei~1 (1.College of Resource and Environment,China Agricultural University,Beijing 100094,China; 2.Department of Forestry,Beijing Agricultural College);Evaluation of Ecosystem Service Value in Mountainous Areas of Beijing[A];[C];2006
- 5 Qin Wei~1,Zhu Qingke~1,Zhang Yan~1, Wu Zongkai~2,Cai Deguang~3 (1 Key Laboratory of Soil and Water Conservation & Desertification Combating,Ministry of Education, College of Soil and Water Conservation,Beijing Forestry University,Beijing,100083,China; 2 Wuqi Office of Returning Cropland to Fores,Wuqi County,Shannxi Province,717600,China; 3 Forestry Bureau of Wuqi County,Wuqi County,Shannxi Province,717600,China.);GIS and RS based assessment on soil conversation value of the land conversion project[A];[C];2008
- 6 Qin Wei~1,Zhu Qingke~1,Zhang Yan~1,Wu Zongkai~2,Cai Deguang~3 (1 Key Laboratory of Soil and Water Conservation & Desertification Combating,Ministry of Education, College of Soil and Water Conservation,Beijing Forestry University,Beijing,100083,China; 2 Wuqi Office of Returning Cropland to Fores,Wuqi County,Shannxi Province,717600,China; 3 Forestry Bureau of Wuqi County,Wuqi County,Shannxi Province,717600,China.);Evaluation of ecological value of the land conversion project in Wuqi County,Shannxi Province[A];[C];2008
- 7 Cai shouhua~1,Hu Jinji~1,Cao Cuibao~2,Zhan Wanlin~2,Jin Dianguo~2 (1.College of Water Science and Engineering,Yangzhou University,Yangzhou 225009 Jiangsu,China;2.The Experimental Station of Water and Soil Conservation of Xuyu County,Xuyu 211700 Jiangsu,China);Assessment on Ecosystem Services Value of Laojunshan Small Watershed[A];[C];2009
- 8 He Yue (School of Liberal Arts and Law,Tianjin University,Tianjin 300072,China);Legislative Suggestions Regarding the Biological Invasion of China[A];[C];2009
- 9 SU Dan~1,CHEN Ke~1,ZHU Ye-ping~2,CHEN Yan~2 (1.Forestry College of Shenyang Agricultural University,Shenyang 110161; 2.Laotudingzi Nature Reserve of Liaoning Benxi,Benxi 117200);Assessment of Ecosystem Services Benefit for Laotudingzi Nature Reserve[A];[C];2008

## 【Co-references】

## Chinese Journal Full-text Database

10 Hits

- 1 Ma Qinyan; Chen Xialin; Wang Juan; et al . College of Resources and Environment, Beijing For. Univ., 100083, P.R.China.;Carbon content rate in constructive species of main forest types in northern China.[J];Journal of Beijing Forestry University;2002-Z1
- 2 Yang Yusheng; Xie Jinsheng; Wang Yixiang; Liu Yanli; Yue Yongjie; Yu Zhanyuan.Forestry College, Fujian Agriculture and Forestry University, 353001, P. R. China.;Carbon stock and carbon sequestration in mixed forest of Cunninghamia lanceolata and Tsoongiodendron odorum.[J];Journal of Beijing Forestry University;2003-05
- 3 ZHAO Min, ZHOU Guang-Sheng (Laboratory of Quantitative Vegetation Ecology, Institute of Botany, Chinese Academy of Sciences, Beijing 100093);Carbon Storage of Forest Vegetation and Its Relationship with Climatic Factors[J];Scientia Geographica Sinica;2004-01
- 4 Li Dongsheng1 Pei Dong2 Yang Zhenyin1 Zhou Zhichun3 (1 Department of Forestry Science and Technology, SFA, Beijing 100714;2 Institute of Forestry, Chinese Academy of Forestry, Beijing 100091;3 Subtropical Forestry Research Institute Chinese Academy of Forestry, Fuyang of Zhejiang 311400);Low-temperature Freezing Rain and Snow Disasters on the Impact of Forest Hubei and Thinking — — To the Post-disaster Reconstruction Work in Hubei Technology Research Steering Group Report[J];Forestry Economics;2008-04
- 5 Zhang Zhida Liu Yongmin Zhang Ping (Office for Nature Reserve Protection Project, SFA, Beijing 100714);A Number of Issues and Recommendations of Chongqing Municipal Forestry Reconstruction[J];Forestry Economics;2008-04
- 6 Tang Jingming1 Song Congwen1 Dai Junhua1 Liu Henggui2 Zhen Xiaoyan3(1.Hubei Academy of Forestry Wuhan 430079;2.Xianning Bamboo Institute,Hubei Academy of Forestry Xianning 437100;3.Hefeng Chinese Medicine Material Institute,Hubei Academy of Forestry Hefeng 445800);Investigation on the Frozen Snow Damage of Main Afforestation Tree Species in Hubei Province[J];Scientia Silvae Sinicae;2008-11
- 7 Zhang Jianguo1 Duan Aiguo1 Tong Shuzhen1 Sun Honggang2 Deng Zongfu3 Zhang Shougong1(1.Research Institute of Forestry of CAF Key Laboratory of Forest Silviculture of the State Forestry Administration Beijing 100091;2.Research Institute of Subtropical Forestry of CAF Fuyang 311400;3.Experimental Centre of

Subtropical Forestry,CAF Fenyi 336600);[Harm of Frost and Snow Suppress to Near Mature Stands of Cunninghamia lanceolata Plantations](#)[J];Scientia Silvae Sinicae;2008-11

8 Li Tusheng Qiu Yaode Gao Hongdi Zhou Zigui Ying Baogen Sheng Pingping(Zhejiang Forestry Ecological Engineering Management Center Hangzhou 310020);[Evaluation to the Sleet Freeze Disaster of the Non-commercial Forest in Zhejiang Province and the Reconstruction Measures](#)[J];Scientia Silvae Sinicae;2008-11

9 CHENG Peng1,2,ZHANG Jin-chi1(1.College of Forest Resources and Environment Nanjing Forestry University,Nanjing 210037,China;2.Forestry Department of Anhui Province,Hefei 230001,China);[Analysis on the influence of ice-snow calamity on forest and reflection to the theory of forest management in Anhui province](#)[J];Journal of Nanjing Forestry University(Natural Sciences Edition);2008-03

10 LIU Guo Hua 1,FU Bo Jie 1,FANG Jing Yun 2 (1 Research Center For Eco Environmental Sciences,Chinese Academy Scineces,Beijing 100095,China;2.Department of Urban and Environmental Sciences,Peking University,Beijing 100871,China);[Carbon dynamics of Chinese forests and its contribution to global carbon balance](#)[J];ACTA ECOLOGICA SINICA;2000-05

## 【Secondary Citations】

Chinese Journal Full-text Database

10 Hits

1 SHAO Hai rong 1;HE Qing tang 1;YAN Hai ping 2;HOU Zhi 2;LI Tao 2. 1 College of Resources and Enviroment, Beijing Forestry University, 100083, P. R. China; 2 Beijing Xishan Experimental Forest Farm, 100093, P.R.China.;[Spatio-temporal changes of negative air ion concentrations in Beijing](#)[J];Journal of Beijing Forestry University;2005-03

2 Chen Bufeng Zhou Guangyi Luo Tushou Li Yide Zeng Qingbo (The Research Institute of Tropical Forestry, Chinese Academy of Forestry,Guangzhou, 510520, P.R.China) Wu Nanhui (Liuxihe Forest Farm,Guangzhou,510956,P.R.China);[Study on the Hydrochemistry and Appraising of Runoff in the Forest Watershed of Liuxihe](#)[J];JOURNAL OF BEIJING FORESTRY UNIVERSITY;1998-04

3 Xu Qiao He Mengchang Yang Zhifeng Yu Jingshan Mao Xianqiang (Institute of Environmental Sciences, State Key Laboratory of Environment Simulation and Pollution Controls, Beijing Normal University , Beijing 100875);[ASSESSMENT ON URBAN ECOSYSTEM SERVICES OF GUANGZHOU CITY](#)[J];Journal of Beijing Normal University(Natural Science);2003-02

4 Chen Hong (Nanning Environmental Protection Monitoring Station,Nanning 530012) Chen Qi,Zhou YunXin (Nanning Environmental Protection Bureau,Nanning 530012);[Ecological City,the Goal of City Planning and Construction](#)[J];CHONGQING ENVIRONMENTAL SCIENCE;1999-06

5 He Dongjin(Northeast Forestry University, Harbin 150040, P. R. China); Hong Wei(Fujian Agriculture and Forestry University); Hu Haiqing(Northeast Forestry University); Cheng Bingrong, Wang Guoli(the Administration Committee of Wuyishan Scenery District);[The Characteristics of Landscape Ecology in the Wuyishan Scenery District](#)[J];Journal of Northeast Forestry University;2003-05

6 PENG Wen ying 1,2 , ZHANG Ke li 1, JIANG Zhong shan 3, KONG Ya ping 1 (1.Department of Resources and Environment Sciences, Beijing Normal University; 2. Neijiang Normal College, Neijiang, Sichuan 641112; 3. Institute of Soil and Water Conserve;[Runoff and Sediment Changes Characteristics after Returning Cropland to Grass on the Loess Plateau](#)[J];Scientia Geographica Sinica;2002-04

7 Yang Yushen Li Zhenwen Xu Yunliang (Fujian College of Forestry);[Studies on the Change in Water Conservation Function of the Broadleaf Stand Replaced by Chinese Fir Stand](#)[J];Journal of Fujian College of Forestry;1992-02

8 LIU Minchao 1,2,3, LI Diqiang 1,\*, WEN Yanmao2, LUAN Xiaofeng11. Institute of Forest Ecology,Environment and Protection,Chinese Academy of Forestry,Beijing 1000912. School of Environmental Science and Engineering, Sun Yat-sen University, Guanqzhou 5102753. Zhanjiang Ocean University, Zhanjiang 524088;[The ecological function analysis and evaluation of ecosystem in Sanjiangyuan region](#)[J];Acta Scientiae Circumstantiae;2005-09

9 郭玉文 孙翠玲 (中国林业科学研究院森林生态环境研究所 北京 100091) 单卫东 (河北? 械孛示忠稻? 承德 067400);[Study on Evaluation of Forest Ecological Functions](#)[J];ENVIRONMENT AND EXPLOITATION;1997-01

10 MA Ding guo,SHU Xiao bo,LIU Ying,ZHONG Ye xi (Urban and Environmental Institute of Jiangxi Normal University,Jiangxi Nanchang 330027 PRC) ;[The Evaluation of Forest Ecosystem Services in Jiangxi Province](#)[J];Jiangxi Science;2003-03