



University of Kentucky  
UKnowledge

---

International Grassland Congress Proceedings

XXI International Grassland Congress / VIII  
International Rangeland Congress

---

## The Standardization Breeding Systematic Construction for Seed Production of Qiancao NO. 2 Tall Fescue

Tianqiong Luo

*Guizhou Institute of Prataculture, China*

Bentian Mo

*Guizhou Institute of Prataculture, China*

Zhongfu Long

*Guizhou Institute of Prataculture, China*

Junjiang Meng

*Guizhou Institute of Prataculture, China*

Ruixiang Chen

*Guizhou Institute of Prataculture, China*

Follow this and additional works at: <https://uknowledge.uky.edu/igc>



Part of the [Plant Sciences Commons](#), and the [Soil Science Commons](#)

This document is available at <https://uknowledge.uky.edu/igc/21/14-1/46>

The XXI International Grassland Congress / VIII International Rangeland Congress took place in Hohhot, China from June 29 through July 5, 2008.

Proceedings edited by Organizing Committee of 2008 IGC/IRC Conference

Published by Guangdong People's Publishing House

---

This Event is brought to you for free and open access by the Plant and Soil Sciences at UKnowledge. It has been accepted for inclusion in International Grassland Congress Proceedings by an authorized administrator of UKnowledge. For more information, please contact [UKnowledge@lsv.uky.edu](mailto:UKnowledge@lsv.uky.edu).

## The standardization breeding systematic construction for seed production of Qiancao NO.2 tall fescue

Luo Tian-qiong , Mo Ben-tian , Long Zhong-fu , Meng Jun-jiang , Chen Rui-xiang  
Guizhou Institute of Prataculture , Dushan , 558200 , Guizhou China  
E-mail :ltq19691102@163 .com Tephone :13595469856

**Key words** :Qiancao NO.2 ,tall fescue ,seed reproduction ,standar dization ,systematic construction

Qiancao No.2 was a new forage variety , that was bred by Guizhou Institute of Prataculture from the local Tall Fescue Family , appraised and demonstrated for many years . Its adaptability was very extensive and restraint ability was good for high temperature and humidity and drought .Kept eximious resistant-cold and trample and barren , The leaf color was dark-green and keeping longer green stage , strong resistant-disease , the management demand was extensive etc characteristic . It was approved by Guizhou Province Committee of Forages Variety Examination in 2004 . For keeping its eximious germplasm characteristic and effectively developed and continued to utilization the logical resource , promoted the breeding and reproduction and management and administration of the new forage variety to be one whole . Adequately brought into play in well-seed of increasing production and plus . Came true industrialization development in Guizhou , we constructed its seed standardization reproduction system . For quicken up its production and application , translated the scientific and technical payoffs into productivity , Gained the look-head economic benefit for the management and selling , Increased the market competition ability . From 1996 year enlarged trail and demonstration decided it production and application in our institute at the same time . On the one hand , look-head planning and purification and reproduction , setting up the reproduction system of mother seed , coming true its examination and approving with large areas application and spreading in-phase ; On the other hand , Developing high yield cultivation practices , building artificial grassland and forming a complete set of utilization technology research ; Finally realizing good cultivation and method assort , proving advantaged technical sustentation for coming true localization of the forage seed in Guizhou .

1 .Technical Resource and Support of the High Quality Seed Reproduction .

2 .The Base Selection of the High Quality Seed Reproduction :(1) The base selection of the old-original and original seed ;(2) The Base Selection of the Commodity Seed .

3 .The Type of Organization about the High Quality Seed Reproduction Base .

4 .The Management Measure about the High Quality Seed Reproduction Base .

(1) The management as clear as a bell ;(2) Signed the correlative contracts and agreement of the item ;(3 ) Carry out the system of administrative leader and expert to take charge it ;(4) Strengthened demonstration and strictly checked ;(5) Management by law and healthiness archives ;(6) Increasing publicizing and optimized service .

5 . Reproduction Ways of the Mother Breed .

(1) Single plant selection ;(2) Compared and appraised on plant and spike line ;(3) Compared on the plant-spike system garden ;(4) Mixture system reproduction .

6 .The Seed Production Technique Rules . (1) The breed production :①Selected on the breed production field ;② The isolate condition ;③The breed field Production fixed number of years ;④The breed reproduction technique ;⑤The seed harvested and cleanness and select , done well to gotten rid of the weeds and bastard . (2)The seed production technique :①The planting crop before seed production field and the Isolation Request ; ② The seed field production fixed number of years ; ③ The field management .(3) The seed airing . (4)Choiceness process of the seed . (5)The seed packing and putting it into storehouse .

7 .The Seed Quality Test :(1) Appraised on the field varieties purity ;(2) Test in the laboratory .

8 .The Seed Quality Standard .

9 .The Seed Sold and Transfer Application .

### References :

Yan Qichuan 2001 . The seed science[M] . Beijing : Chinese Agriculture Press , 144-146 .

Han Jianguo ,1997 . The practical forage seed science [M] . Beijing : Chinese Agricultural College Press ,182-204 .

Xue Baoming , 2005 . The present situation and development direction of the high quality forage seed reproduction system[J] Yulin Science and Technology[J] . The grassland superintend and management Journal 1 ,51-53 .

Kong Chongyi , 2004 .Elementary discussion the breeding systematic construction in new form , Journal 4 ,1-2 .

Yun jingfeng ,2004 .The herbage breeding technique[M] ,Chemical Industrial Press , 228-257 .