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The 21st International Grassland Congress / 8th 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

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The state of forage germplasm resources in Yunnan province

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Key words : Yunnan, forage germplasm resources, foreground view

Introduction The abundance of forage germplasm resources in Yunnan province was determined by its complicated natural geography. The natural geography and abundance ratio and distributing of forage germplasm resources in Yunnan grassland was described in this paper.

Natural geography, forage germplasm resources and Composing of grass communities of Yunnan Yunnan province was located 21°9'-29°15' northern latitude and 97°39'-106°12' eastern longitude. Most parts of it belong to southern of subtropic area and northern of tropic area while little of it belongs to temperate area. Yearly rainfall averages 1100 mm, with over 80% falling in June—October. Total of 15.27 million hm² grassland in Yunnan province and 11.87 million hm² of the grassland was available, which was about 30% of the land in Yunnan province. Yunnan province was abundant in grassland resources. 11 grassland forms and more than 150 grassland types were involved. There were about 4958 vegetations in Yunnan grassland, with about 3200 vegetations are available forage species. Among of them 320 species belong to grasses, 284 species belong to legumes and 152 species belong to sedges. 94 species and 523 varieties of forage were introduced from foreign countries (Kuang chong-yi et al., 2005). Main grassland forms and the composing of forage communities in Yunnan grassland were shown as follows (Table 1).

Table 1 Composition of forage communities in Yunnan grassland.

Forage species & grassland forms	Grasses	Legumes	Sedges	Hybrid forages	Arbor, shrub and undershrub
Hill tussock	13.89	5.56	0	33.33	47.22
Hill and vally tussock	24.73	10.75	9.60	30.11	24.73
Fluvialvelly thicket	24.59	10.66	2.46	25.40	36.89
Mountane thicket and tussock	20.00	4.39	2.44	55.12	18.05
Mountane savanna	21.50	7.89	5.06	45.19	20.35
Mountane meadow	16.67	5.75	5.75	70.10	1.72
Subalpine meadow	14.08	5.63	4.23	74.65	1.41
High and cold meadow	4.76	0	28.57	66.67	0
High and cold moor meadow	12.90	3.23	16.13	67.74	0
Mean	17.00	5.98	8.25	52.04	16.71
Ratio	2.8	1.0	1.4	8.7	2.8

Reference

Kuang Chongyi, Kui Jiexiang, Xue Shiming & Zhou Ziwei, (2002). The function of forage germplasm resources in development of Yunnan pasture stockbreeding. *Yunnan Journal of Animal Science and Veterinary Medicine*, 23-25.