

Overview Papers and Field Trials Reports.

Prepared by staff of QLDP and associated researchers as background material for the Concluding Project Workshop on 21-26 August 2000. These papers are available in full version in Chinese and in English at the Bureau of Animal Husbandry in Xining.

- P1 Aiqi Gong, Cheng Ren, Shenghe Zhang, Xiaofa Wang, Weiming Li, Haiqiang Luo. *Prediction of the Plateau Pika Population in Dari and Machin*
- P2 Aiqi Gong, Anhai Qiao, Xiaofa Wang, Shenghe Zhang, Cheng Ren. *Influence of Livestock Grazing on Grassland*
- P3 Aiqi-Gong, Anhai-Qiao, Xiaofa-Wang, Shenghe-Zhang, Ren-Cheng, Weiming-Li, Haiqiang. *Screening and Comparing Tests of Rodenticides*
- P4 Aiqi-Gong, Anhai-Qiao, Xiaofa-Wang, Shenghe-Zhang, Ren-Cheng, Weiming-Li. *Investigation into the Meadow Rodent Infestation in Dari County*
- P5 Beerling, M.-L.B. *Rationale and Objectives of Herders and How these are Taken into Account in the Extension System of QLDP*
- P6 Bu Da, Nai Zhijiancuo, Wu Youxung, Yang Yuling. *Summary Report on the EU China Cooperative Programme on Parasite Control in Sheep and Yaks in Dari County*
- P7 Byrom Andrea. *Management of Small Mammal Pests: A Perspective from New Zealand*
- P8 Cai Jingshan, Ma Zhanquan, Zhang Licheng. *The Effect on Weight Gain and Survival Rate of Animals after Albendazole was Administered*
- P9 Cai Jinshan Wang Chenfan, Ma Zhanquan, Lu Guangzhen, Li Dong, Cairangdangzhi, Bu Da, Nai. *Research on Parasite Disease Control in Sheep and Yaks Using Avermectin*
- P10 Cai JinShan, Ma Zhanquan, Cai Randangzhi, Li Dong, Wu Youxung, Nai Zhijian cuo, Zhou Zhen, Zha Xi. *Test on the Effectiveness of Avermectin, Made in Qinghai, for Controlling Internal and External Parasites in Sheep*
- P11 Cai Jinshan, Ma Zhanquan, Lu Guangzhen, Li Dong, Li Cairangtai Own Heng, Bu Da, Wu Youxung. *Test on Effect of Avermectin Drench in Winter to Prevent Spring Increase of Round Worms in Sheep*
- P12 Dong Quanming, Ma Yushou, Li Qingyun, Lang Beining. *Effect of Enclosing Alpine Meadow Deteriorated Grassland*

- P13 Dong Quanming. *Effect of Stocking Rates on Relative Plant Frequency and Coverage in Alpine Meadow*
- P14 Fan Nai-Chang. *Ecology and Management of Rodent Pests in Grasslands of Qinghai Province*
- P15 Ga Shangzhuoma, Luo Maoji. *Test Using Avermectin to Stop the Spring Round Worm Cycle in Sheep*
- P16 JingYichao. *Approach in Establishing Oat Multiplication Breeding Base in Hai Dong Agricultural Area*
- P17 JingYiChao. *Report on Techniques and Prospects for Oat Cultivation in Corrals in Southern Qinghai*
- P18 King Alan, Sa Wenjun, Wang Yongfeng. *Using Participatory Rural Appraisal (PRA) Methods with Tibetan Herders on the Qinghai Plateau, China*
- P19 Li Cai Langtai. *Control of Diarrhoea in Young Animals*
- P20 Li Faji. *Establishing Sown Pasture as an Important Means of Protecting Grassland Eco-equilibrium in "Black Soil Type" Deteriorated Grassland*
- P21 Li Honghai and Wang Yongfeng. *The Relationship between the Establishment of the Faculty of Animal Husbandry Extension and the Project of China/European Cooperation*
- P22 Li Lianfang, Zhang Hanqing, Ma Lizhong, Luo Yuzhu, Li Fuqing, Cai Suo, Renqin, Zhu. *Determination of Toxicity of Qinghai-manufactured Avermectin in Mice and Safety Test in Sheep*
- P23 Li Qingyun, Ma Yushou, Dong Quanmin, Shi Jianjun, Wang Qiji, Liu Wei. *Report on a Grazing Trial on Alpine Meadow*
- P24 Li Qingyun. *Economic Benefit Analysis of Establishing Grassland in "Black Beach" Areas*
- P25 Li Qingyun. *Research on Establishment of Planted Grassland in Degraded Areas*
- P26 Li Quan, Xu Jintao, Wang Chenfan, Suo Nanzaxi, Li Zhouqu. *The Determination of Yak Growth in Guoluo*
- P27 Li Xilai. *Discussion on the Optimum Management Model for a Family Ranch in South Qinghai Plateau*
- P28 Li Xilai. *Effect of Different Seeding Densities on Growth of Oats in Livestock Pens on Qinghai Plateau*
- P29 Li Xilai. *Research on Koresia Grassland under Different Grazing Pressures in Qinghai Province*
- P30 Li Xilai. *The Natural Factors Influencing, and Biological Mechanism of, Black Beach Formation in Qinghai Tibetan Plateau*
- P31 Liu Yingchun. *Introduction of Perennial Grasses and Legumes in Guoluo Prefecture*
- P32 Liu Yingchun and Beerling, M.L. *A Brief Discussion on Development of Weaving Activities in Guoluo*
- P33 Liu Yingchun. *A Discussion on the Grassland Resources and on Sustainable Development in Qinghai*
- P34 Luo Shenxia, Lu Guangzhen, Li Dong, Zhang Shengqing. *The EU China Cooperative Yak and Sheep Parasite Control Technique Practised in Guoluo Prefecture*

- P35 Luo Xiaoling. *Present Progress of Research on the Exploitation of Wild Yak Resource*
- P36 Luo Xiaoling. *Research on Carcass Characteristics of Yaks in Guoluo*
- P37 Ma Lizhaong, Fu Guozhang and Cai Jinshan. *Animal and Poultry Disease Control in Qinghai Province*
- P38 Ma Lizhong, Fu Guozhang. *The Progress of the EU China Cooperative Programme on Animal Parasite Control in Guoluo*
- P39 Ma Lizhong. *Report on an Investigation into Parasitic Infestation in Sheep and Cows in Maqin and Dari Counties*
- P40 Ma Lizhong. *Report on Prevention of Internal and External Parasites in Highland Areas and Extension Techniques Used*
- P41 Ma Yushou. *Effect of Supply of Nitrogen on Aboveground Biomass of Black Soils Deteriorated Grassland*
- P42 Ma Yushou. *Report on Trials of Weed Control on 'Black-Soil' Type Degraded Rangeland*
- P43 Ma Yushou. *State of "Black Beach" and Rehabilitation Approach in Degraded Grassland*
- P44 Ma Yushou. *Summary Report on Research on Degraded 'Black Beach' Grassland*
- P45 Ma Zhanquan, Cai Jinshan, Lu Guangzhen, Li Dong, Bu Da, Yang Yuling and Luo Maoji, Gongtuo. *Test on Parasite Control in Sheep Using Four Preparations of Avermectin*
- P46 Ma Zhanquan, Wang Chenfan, Cai Jinshan, Dong Caihang, Cai Rangdangzhi, Nai Zhijiancuo, Bu Da. *Investigation into Sheep Parasite Infestation in Sheep in Guoluo Project Area and Test on Deworming Effectiveness of Albendazole*
- P47 Nai Zhijiancuo, Bu Da, Wu Youxung, Nai liangji. *Comprehensive Control Techniques for Both Internal and External Parasites in Dari County*
- P48 Nai-Chang Fan. *Ecology and Management of Rodent Pests in Grasslands of Qinghai Province*
- P49 Niu Xiaoying. *Disease Diagnosis and Treatment in Yak Calves in Guoluo Area*
- P50 Niu Xiaoying. *Extension Techniques for Control of Young Animal Diseases*
- P51 Niu Xiaoying. *Summary of Extension and Control of Diseases of Newborn Lambs and Calves in Highland Grassland*
- P52 Niu Xiaoying. *The Diagnosis and Control Methods for Diseases of Newborn Lambs*
- P53 Qiao Anhai. *Research and Application of Remote Sensing Techniques in Degraded Grassland*
- P54 Sa Wenjung and A. King. *A Brief Introduction of PRA and Its Practical Application in the Qinghai Livestock Development Project.*
- P55 Shi Dejun. *Analysis of Fermentation for Several Oats Variety*
- P56 Shi Dejun. *Analysis of Oat Yield in Cold Areas of Qinghai*
- P57 Shi Dejun. *Trials in Guoluo on Oat Varieties Introduced from North Europe*
- P58 Shi Jianyun, MaYushou, Li Qingyun, Dong Quanming, Li Youfu, Li Youji. *Research on Introduced Grass Varieties and Mixed Sowing Techniques*

- P59 Wageningen N.M van, Sa Wenjun. *Production and Use of an Illustrated Handbook for Sheep and Yak Herders in Qinghai*
- P60 Wang Chenfang, J.Davis, Niu Xiaoying, Cai Jingshan and Lu Guangzhen. *A Survey on Important Yak and Sheep Diseases in Guoluo Prefecture*
- P61 Wang Chengfang, Ma Lizhong, Cai Jinshan and Lu Guangzhen. *Economic Benefit Analysis on Parasite Drenching in Sheep and Yaks Using Avermectin Manufactured in Qinghai*
- P62 Wang Guosheng and Wang Qingchun. *Research on Grassland Degradation and Counter-measures*
- P63 Wang Qiji, Wang Wengying, Lang Beining and Ma Yushou. *Contributory Factors to Grassland Degradation and Sustainable Development Strategy*
- P64 Wang Wenyong, Wang Qiji. *Analysis of Biodiversity and Vegetation Structure in Koresia Grassland*
- P65 Wei Yiaping. *Analysis of the State of Yak Productivity in Guoluo Prefecture*
- P66 Wu Xiaodong. *Preliminary Investigation on Regional and Comprehensive Strategies of Prevention and Control of rodents in Grasslands of China*
- P67 Xiong Jingning. *Pastureland Policy and Management in Qinghai Province*
- P68 Xiu Jiansheng and Lu, G.Z. *The Application of Participatory Style of Extension in the Extension process of two skills in GuoLuo Prefecture*
- P69 Xu Jingtao. *Research on Growth Rates of Young Yak*
- P70 Yang Li Jun. *Influence of Different Sowing Dates on Oat Production*
- P71 Yang Lijun. *Analysis of Household Farm System in Southern Qinghai*
- P72 Yang Lijun. *Research on Oats Cultivation and Comparison of Varieties*
- P73 Yang Lijun. *Research on Varieties of Grass in Mountainous Areas in Qinghai*
- P74 Yang Rongzheng. *Research on Yak Industry and Development in Qinghai*
- P75 Ye Chengyu. *Effect of Xu-li-ling on Control of Lamb Diarrhea*
- P76 Ye Chengyu. *Yaks Feed Supplement Test after Snow Disaster on Qinghai-Tibetan Plateau*
- P77 Zhang Guosheng, Wang Qingchun. *Analysis of Effect of Climatic Change on Grassland Desertification in the Source Area of Yellow River in China*
- P78 Zhang Guosheng, Wang Qingchun. *Climatic Change over Past Forty Years in Southern Qinghai Plateau in China and its Impact on Rangeland Environment*
- P79 Zhang Hanqing, Li Lianfang, Fu Guozhang, Ma Lizhong, Ma Fenglian, Dong Hongliang. *Test on eradication of Round Worm Larvae in Sheep Using Avermectin Manufactured in Qinghai*
- P80 Zhang Licheng. *An Analysis of the Economic Impact of the Combination of Three Extension Messages.*
- P81 Zhang Shenghe. *Research into Compound and Auxiliary Techniques for Rodent Control*
- P82 Zhuo Zhen, You Lacairang, Fen Hai, Da Zhisuonan, Cai Huazaxi. *Test of Effectiveness of Avermectin for Controlling Warble Fly Grubs*

Technical Project Reports

Prepared by staff of QLDP in the course of the project (1996-2000). These reports are available in full version in Chinese and in English at the Bureau of Animal Husbandry in Xining.

1. Archer, T. (R1996) *Rangeland Extension Specialist, 1996 Reports.*
2. Archer, T. (R1997) *Soil Forming Factors and Rangeland Degradation*
3. Bauer, K. (R1997) *Veterinary Laboratories*
4. Beerling, M.L. (R2000) *Supporting Women's Weaving in Qinghai, A Feasibility Investigation Followed by a project Proposal*
5. Dideron, S. (R1995) *Baseline Socioeconomic Survey, First Phase*
6. Dideron, S.; Wangdan (R1997) *Baseline Socioeconomic Survey, 2nd Phase*
7. Dunsmore, S. (R1998) *Weaving Activities (includes Weaving Samples).*
8. Gates, D.H. (R1996) *Rangeland Stock-taking*
9. Goldstein, M. (R1996) *Social Evaluation Study*
10. Hodgson, N. (R1996) *Remote Sensing in Grassland Areas - A Selected Bibliography*
11. Hodgson, N. (R1996) *Land Resource Monitoring, 1st Mission Report*
12. Hodgson, N. (R1997) *Remote sensing, Geographical Information Systems, Meteorology. 2nd Mission Report*
13. Hodgson, N. (R1998) *Land Resource Monitoring, 3rd Mission Report*
14. Hodgson, N. (R1999) *Land Resource Monitoring, 4th Mission Report*
15. Hodgson, N. (R1999) *Land Resource Monitoring, 5th Mission Report and GIS Training Manual*
16. Hodgson, N.; Qia, J.; Qiao, A.H.; Yu, G.N. (R1997) *Jianshe Remote Sensing for Vegetation Mapping*
17. King, A. (R1998) *Extension and Training, 1st Mission Report, with Training Curriculum*
18. King, A. (R1999) *Extension and Training Activities, 2nd Mission Report*
19. Limbach, W.E. (R2000) *Rangeland Agronomy, 3rd Mission report*
20. Limbach, W.E. (R1998) *Rangeland Agronomy, 1st Mission Report*
21. Limbach, W.E. (R1999) *Rangeland Agronomy, 2nd Mission Report*
22. Matthewman, R. (R1996) *Institutional Development and Extension Training, 1st Mission Report*
23. Matthewman, R. (R1997) *Institutional Development and Extension Training, 2nd Mission Report*
24. Matthewman, R. (R1997) *Institutional Development and Extension Training, 3rd Mission Report.*
25. Meliefste, K. (R1997) *Assessment of Analytical Laboratories*
26. Moorehouse, P. (R1997) *Veterinary Services*
27. Perryman, A.H. (R1999) *Remote Sensing*
28. Perryman, A.H. (R2000) *Use of Remotely Sensed Data for Assessment of Rangeland Productivity Dynamics*

29. Posamentier, H. (R1996) *Rodent Control: Past Control Efforts and Recommendations for the Future. 1st Mission Report*
30. Posamentier, H. (R1997) *Rodent Control Activities, 2nd Mission Report*
31. Sheehy, D.P. (R1998) *Rangeland Management Activities, 1st Mission Report*
32. Sheehy, D.P. (R1998) *Rangeland Management Activities, 2nd Mission Report*
33. Sheehy, D.P. (R1999) *Rangeland Management Activities, 3rd Mission Report*
34. Sheehy, D.P. (R2000) *Rangeland Management Report, 5th Mission Report*
35. Sheehy, D.P. (R2000) *Rangeland Management Planning in Jianshe Township*
36. Various QLDP Staff and Associated Scientists (R2000) *Draft papers on Research and Activities by QLDP, 1996-2000*
37. Wageningen, N.M. van; Sa Wenjun (eds) (R2000) *Proceedings of the Concluding Seminar of the Qinghai Livestock Development Project*
38. Wageningen, N.M. van; Zachernuk, T. (R1998) *Participatory Resource Planning, Report of a Workshop in Jianshe*
39. Wageningen, N.M. van (R1999) *Preparation of an Extension Handbook for Herders*
40. Wester (R1999) *Notes on In-service Training of Extension Staff in Project Areas of QLDP*
41. Wester, L. (eds) (R2000) *Report of a Workshop on Progress with the Control of Rodents (With Contributions of R. Pech, A. Byrom, Nai-Chang Fan, Wu Xiaodong and others)*
42. Zachernuk, T. (R1998) *Monitoring and Evaluation, 1st Mission Report*
43. Zachernuk, T. (R1999) *Monitoring and Evaluation, 2nd Mission Report*

Published Papers Referred to in the Main Text

- Chambers et al. (1999) 'Biological Control of Rodents - The Case for Fertility Control Using Immuno-Contraception'. In Singleton, G.R.; Hinds, L.A.; Leirs, H.; Zhang, Z. *Ecologically-based Rodent Management*, pp. 215-242. Canberra: Australian Centre for International Agricultural Research
- Chen Quan-gong; Ma Yushou; Ya Wei-xin (1998) 'Report on the Survey of Degraded Rangeland in Dari County, Guoluo Prefecture'. China: Qinghai Academy of Animal and Veterinary Science and Gansu Institute of Range Ecology
- Fan et al. (1999) 'Rodent Pest Management in the Qinghai-Tibet Alpine Meadow Ecosystem'. In Singleton, G.R.; Hinds, L.A.; Leirs, H.; Zhang, Z (eds) *Ecologically-based Rodent Management*. Canberra: Australian Centre for International Agricultural Research
- Fung T.; LeDrew E. (1987) 'Application of Principle Components Analysis to Change Detection'. In *Photogrammetric Engineering and Remote Sensing*. 53(12):1649-1658
- Kidwell, K. (1991) *NOAA Polar Orbiter Data User's Guide. NCDC/SDSD*. Washington DC: National Climatic Data Center (Updated version (2000) available online at: <http://www2.ncdc.noaa.gov/docs/podug>)
- NOAA (2000) *Pathfinder AVHRR Land User's Manual 3.1*, available online and available for download as a .pdf file at: http://daac.gsfc.nasa.gov/CAMPAIGN_DOCS/FTP_SITE/readmes/pal.html

- Singleton et al. (1999) 'Ecologically-based Management of Rodent Pests - Re-evaluating Our Approach to an Old Problem'. In Singleton, G.R.; Hinds, L.A.; Leirs, H.; Zhang, Z. *Ecologically-based Rodent Management*, pp. 17-29. Canberra: Australian Centre for International Agricultural Research
- Smith, A.T.; Foggin, J.M. (1999) 'The Plateau Pika (*Ochotona curzoniae*) is a Keystone Species for Biodiversity on the Tibetan Plateau'. In *Animal Conservation*, 2:235-240
- Thomas A. (2000) 'Spatial and Temporal Characteristics of Potential Evapotranspiration Trends over China'. In *International Journal of Climatology*, 20:381-396
- Tieszen L.L.; Reed, C.B.; Bliss, N.B.; Wylie, B.K.; DeJong, D.D. (1997) 'NDVI, C₃ and C₄ Production, and Distributions in Great Plains Grassland Land Cover Classes'. In *Ecological Applications*, 7(1):59-78
- Xu Weixin, Dong Qinghan, Sabbe, H.; Veroustraete, F. (2000) 'Agreement for the Execution of a Joint Sino-Belgian Project on the Investigation and Design of a Dynamic Monitoring System for Land-cover Change with Remote Sensing. Work Package B: Regional Scale Assessment, B.1. Spatio-temporal Interpolation of Meteorological Data; B.2. Analysis of Climate Evolution over the Last 50 years'. 2000/TAP/066, VITO
- Zhang Guosheng; Li Xilai; Li Lin; Hu Lin; Li Xuegong; Feng Shuqing (1998) 'Meteorological Analysis on the Forming of Barelands in Cold Highland Grassland in Southern Qinghai Plateau'. In *Grassland of China*, 6:12-16, 24 (Only abstract available in English)

3. 青海畜牧业

青海省畜牧兽医学研究所
 青海省畜牧兽医学研究所
 地址: 青海省西宁市城西区
 电话: 0971-4111000
 传真: 0971-4111294

4. 中国畜牧业

中国畜牧业
 地址: 北京市西城区
 电话: 010-63911111
 传真: 010-63911111

5. 中国畜牧学杂志

中国畜牧学杂志
 地址: 北京市西城区
 电话: 010-63911111
 传真: 010-63911111

6. 中国畜牧学杂志编辑部

中国畜牧学杂志编辑部
 地址: 北京市西城区
 电话: 010-63911111
 传真: 010-63911111