

**DEVELOPMENT OF AN ACTION RESEARCH STRATEGY TO SUPPORT WOMEN AND MEN FARMERS IN THE SUSTAINABLE MANAGEMENT OF ANIMAL GENETIC RESOURCES IN RURAL ZIMBABWE**

**BIBLIOGRAPHY**

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Authors	<b>Agrawal, A.</b>
Title	Dismantling the Divide Between Indigenous and Scientific Knowledge.
Year	<b>1995</b>
Language	English
Location/Publisher	<i>Development and Change</i> Vol. 26, No 3, pp 413-439
Brief Summary	The author discusses the role of indigenous knowledge (IK) systems and defines IK as unique and contextual. It is 'embedded in a particular community', 'contextually bound' and 'defined by the economic, social, cultural, ideological and belief system in which it is found' IK is passed down from generation to generation, often by word of mouth. IK is frequently the basis for local level decision making in the community
LinKS Interest	A very relevant appraisal of Indigenous Knowledge Systems compared with modern scientific knowledge

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Authors	<b>Arrowsmith, S and Ward, H K</b>
Title	Indigenous sheep selection programme and productivity of indigenous sheep and goats.
Year	1981
Language	English
Location/Publisher	Annual Report 1980/81. Division of Livestock and Pastures, Department of Research and Specialist Services, Zimbabwe
Brief Summary	The article summarizes research work on the productivity of indigenous sheep and goats based on research work at Matopos and Research Station. The indigenous breeds are noted for their hardiness, high reproductive rates.
LinKS Interest	The article describes the worthy of indigenous breeds of sheep and goats found in Zimbabwe.

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Authors	<b>Baffour-Awuah, O.</b>
Title	Directions and progress of meat-goat studies at Matopos Research Station.
Year	<b>1986</b>
Language	English
Location/Publisher	Henderson Research Station. Paper presented at a Field Day for Goat Producers, Henderson Research Station 26 July 1986.
Brief Summary	The paper summarizes goat research studies at Matopos Research Station, especially the work characterizing the reproductive rates selection and growth rates in indigenous goats.
LinKS Interest	A relevant source of information on the genetic value of indigenous goats

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Authors	<b>Bazeley, W.</b>
Title	A Manyika Marriage Custom.
Year	<b>1926</b>
Language	English
Location/Publisher	National Archives, Harare, Zimbabwe. <i>The Southern Rhodesia Native Affairs Department Annual (NADA)</i> , pp43.
Brief Summary	The article describes marriage rights of the Manyika people of Eastern Zimbabwe. Describes in detail the lobola payment system and highlights the role of livestock in the marriage process.

LinKS Interest	A very relevant illustration of the importance of livestock in the traditional lives of indigenous people of Zimbabwe
Authors	<b>Bentley, J. W.</b>
Title	Stimulating farmer experiments in non-chemical pest control in Central America.
Year	<b>1994</b>
Language	English
Location/Publisher	London. Intermediate Technology Publications. Scoones, I. Thompson, J. and Chambers, R. (eds.) 1994. Beyond Farmer First. Rural people's knowledge, Agricultural Research, and Extension Practice, pp 147-150
Brief Summary	The article describes indigenous knowledge systems in pest management and how farmer knowledge can be used to reduce the use of pesticide chemicals.
LinKS Interest	Highlights the importance of IK in sustainable crop management.
Authors	<b>Bratton, M.</b>
Title	Land Redistribution 1980-1990
Year	<b>1994</b>
Language	English
Location/Publisher	Ministry of Agriculture Library, Harare, Zimbabwe. Rukuni, M and Eicher, K Eds. Zimbabwe Agricultural Revolution
Brief Summary	Highlights the inequitable distribution of land in Zimbabwe: the large scale commercial farms owned largely by whites and in areas of high agricultural potential and communal farming areas occupied by indigenous Africans and located in regions of low agricultural potential. The article describes how the government of Zimbabwe has attempted to address the land inequities by resettling people from the congested communal lands on land acquired from the commercial farming sector.
LinKS Interest	Highlights resource inequities relevant to the long term sustainability of indigenous livestock management systems in communal areas of Zimbabwe.
Authors	<b>CARD</b>
Title	Goat Production in Zimbabwe – A Feasibility Study
Year	<b>1992</b>
Language	English
Location/Publisher	GTZ Offices, Harare, Zimbabwe
Brief Summary	The report is a summary of findings on goat research in Zimbabwe and findings of some pilot surveys in Zaka and Gutu districts of Zimbabwe.
LinKS Interest	A useful review the productivity of indigenous goats and constraints to their productivity in communal areas of Zimbabwe.
Authors	<b>Central Statistics Office</b>
Title	Statistical Year Book
Year	<b>1997</b>
Language	English
Location/Publisher	Central Statistical Offices, Harare, Zimbabwe
Brief Summary	Statistical data on agricultural production in Zimbabwe.
LinKS Interest	Statistical data on agricultural production in Zimbabwe
Authors	<b>Chavunduka, D M</b>
Title	The Role of Cattle in the Traditional African Society.

Year **1974**  
Language English  
Location/Publisher Grasslands Research Station Library, Marondera, Zimbabwe. Proceedings of a Conference on Beef Cattle Production in Developing Countries. Edinburgh, 1-6 September 1974. pp 398-400  
Brief Summary A well presented summary of the role of cattle in traditional African Society. Includes the functions such as marriage rights, religious functions, wealth, drought power, source of manure etc.  
LinKS Interest Highlights IK systems in the value of cattle.

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Authors **Chavunduka, D M.**  
Title The Lutheran World Federation's Cattle Rehabilitation and Development Programme.  
Year **1989**  
Language English  
Location/Publisher Centre for Applied Social Science, University of Zimbabwe. Ben Cousins Ed. People Land and Livestock.  
Brief Summary The article highlights the efforts of an NGO to rehabilitate cattle herds in communal areas, indicating some of the shortfalls of the programme in the preservation of indigenous livestock genetic resources, e.g. when exotic breeds of cattle are introduced in the communal areas.  
LinKS Interest Relevant issues of management and preservation of indigenous genetic resources *in situ*.

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Authors **Chifamba, I K, Khombe, C T and Sithole, L.**  
Title Comparative performance of indigenous and boer goats under Brachystegia woodland.  
Year **1990**  
Language English  
Location/Publisher Makoholi Experiment Station, Masvingo  
Brief Summary This is a report on a trial to compare indigenous goats and boar goats when they are raised in a similar environment. The article highlights the superiority of indigenous goats in fertility and the benefits of crossbreeding indigenous with boar goats in growth rates of the offspring.  
LinKS Interest The article highlights the superiority pf indigenous goats over exotic breeds

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Authors **Chifamba, I K, Prasad, V L and Arora, L K.**  
Title Goat productivity and management in rural Zimbabwe.  
Year **1995**  
Language English  
Location/Publisher Makoholi Experimental Station, Masvingo  
Brief Summary The paper summarizes results of a survey of goat production in communal areas of Masvingo Province in Zimbabwe. Goat management systems, productivity and constraints are highlighted.  
LinKS Interest Very relevant article to the management of indigenous goats under traditional systems.

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Authors **Chifamba, I K, Ward, H K, Tawonezvi, H P R, Smith, C and Khombe, C T**  
Title Productivity of Zimbabwean indigenous sheep, German Mutton Marino and their crosses on range  
Year **1988.**  
Language English

Location/Publisher Journal of Agricultural Science Cambridge, 111: 59-65  
Brief Summary The paper highlights the superior productivity of indigenous sheep compared to exotic merino sheep. Crossbreeding of the indigenous sheep and merino sheep produces a superior cross and compensates for the low weights and growth rates in the pure indigenous sheep.  
LinKS Interest The worthy of indigenous sheep is highlighted.

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Authors **Chigaru, P R N, Maundura, L and Holness, D H**  
Title Comparative growth, feed conversion efficiency and carcass composition of indigenous pigs and Large White pigs  
Year **1981**  
Language English  
Location/Publisher *Zimbabwe Journal of Agricultural Research, 19: 31-36*  
Brief Summary The report is based on research trials on the growth rates, feed conversion efficiency and carcass characteristics of indigenous pigs compared to the exotic large white breed when fed commercial diets with differing protein levels. The indigenous pigs were observed to have poor growth rates, feed conversion efficiency and produced carcasses of poor fleshing  
LinKS Interest Highlights the worth of indigenous breeds of pigs.

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Authors **Chigwedere, A.**  
Title Lobola: the Pros and Cons  
Year **1986**  
Language English  
Location/Publisher Books for Africa, Harare.  
Brief Summary The book is a detailed description of the marriage rights of the Shona people of Zimbabwe. The importance and procedure of lobola payment is described.  
LinKS Interest The article highlights the importance of lobola and especially the central role of livestock in the marriage rights.

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Authors **Cobbing, J R D.**  
Title The Ndebele Under the Khumalos 1820-1896.  
Year **1976.**  
Language English  
Location/Publisher National Archives, Bulawayo, Zimbabwe. PhD Thesis University of Lancaster, UK  
Brief Summary The thesis is a very elaborate study of the Ndebele people. In the thesis is highlighted the importance of livestock in the socio-cultural life of the Ndebele e.g. wealth, livestock loaning systems, lobola payment. Cattle occupied a vital position in the Ndebele socio-economic formation. Cattle ownership was the principal determinant of social status and acquisition of cattle was the long-term economic objective of a Ndebele male.  
LinKS Interest IK systems on the value of livestock

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Authors **Collson, M.**  
Title A diagnostic survey of the south of Chibi District, Zimbabwe for adapted research planning.  
Year **1982**  
Language English  
Location/Publisher CYMITT Head Office, Harare, Zimbabwe. CYMITT Eastern and Southern Africa Economic Programme Occasional Paper No 5  
Brief Summary The survey report provides important baseline data on crop and livestock management in Chibi District. The issues of livestock ownership, livestock

LinKS Interest	population and interaction of crop and livestock are illustrated. Provides information on <i>in situ</i> management of indigenous genetic resources.
Authors	<b>Cousins, B.</b>
Title	Community, class, and grazing management in Zimbabwe's communal lands
Year	<b>1989</b>
Language	English
Location/Publisher	Centre for Applied Social Science, University of Zimbabwe. Ben Cousins Ed. People Land and Livestock.
Brief Summary	The review discusses the intricacies of common property ownership, management 'tragedy of the commons' and describes how communities exist and interact. Issues of leadership, equity and class within communal areas are discussed in detail.
LinKS Interest	Illustrates the complexity of rural communities and how issues of community organization can influence crop and animal genetic resource management.
Authors	<b>Department of Veterinary Services</b>
Title	Livestock Monthly Reports
Year	<b>1999</b>
Language	English
Location	Ministry of Agriculture, Department of Veterinary Services. Harare
Brief Summary	The reports provide statistics of livestock numbers, births, mortalities and outbreaks of diseases.
LinKS Interest	Important data on indigenous animal genetic resources
Authors	<b>Donkin, D J...</b>
Title	Goats in Rhodesia
Year	<b>1970</b>
Language	English
Location/Publisher	National Archives, Harare, Zimbabwe. Ministry of Agriculture, Department of Conservation and Extension. Report Number 322.01.
Brief Summary	The article highlights government policy on goats. Goats were not considered central in the development of agriculture at that time. Goats were considered as being very destructive to the environment and their production was not encouraged.
LinKS Interest	Government policy to goat production in Zimbabwe
Authors	<b>Gambiza, J, Nyama, C, and Manyara, E.</b>
Title	A study on the interaction of goats and cattle on the thorn veld.
Year	<b>1990</b>
Language	English
Location/Publisher	Matopos Research Station Report. Department of Research and Specialist Services
Brief Summary	The report summarizes data from a trial to measure the interaction between cattle and goats on the rangeland. Goats are browsers while cattle are grazers. Cattle and goats will have differing effects on the rangeland e.g. the browsing effects of goats will modify the rate of bush encroachment, which in turn affects growth of grass.
LinKS Interest	Provides information on the sustainable management of animal genetic resources.

Authors	<b>GFA</b>
Title	Study on the economic and social determinants of Livestock production in the communal areas - Zimbabwe
Year	<b>1987</b>
Language	English
Location/Publisher	Ministry of Lands Agriculture and Rural Resettlement. Report to the Department of Veterinary Services.
Brief Summary	This report is a very comprehensive study based on survey carried out in communal areas of Zimbabwe describing the dimensions of livestock production in Zimbabwe's communal areas: e.g. importance, production systems, gender, ownership constraints etc.
LinKS Interest	Provides baseline data on livestock ownership, gender and some of the important constraints to livestock production in communal lands.
Authors	<b>Government of Zimbabwe</b>
Title	First Five-Year Development Plan 1986-1990.
Year	<b>1986</b>
Language	English
Location	Government Printers, Harare
Brief Summary	Policy document on development plans by the government of Zimbabwe, includes agriculture crop and livestock
LinKS Interest	Highlights government policy on agricultural development
Authors	<b>Hale, D J.</b>
Title	Systems of production and productivity of goats in three communal areas of Zimbabwe.
Year	<b>1986</b>
Language	English
Location/Publisher	IDRC, Nairobi, Kenya. Small Ruminants in Eastern and Southern Africa. Adeniji K K and Kategile J A Eds.
Brief Summary	Based on surveys carried out in communal areas of Zimbabwe, the report characterizes the production systems and the biological productivity of goats in communal areas.
LinKS Interest	Provides information on the productivity of indigenous animal genetic resources
Authors	<b>Holness, D H</b>
Title	The effect of plane of nutrition on reproductive efficiency of the indigenous pigs
Year	<b>1973</b>
Language	English
Location/Publisher	South African Journal of Animal Science, 3: 73-78
Brief Summary	The report is based on research trails on reproductive efficiency of indigenous pigs given different diets. The indigenous pigs were able to raise good litter size, although lower than litter sizes achieved with the commercial breeds. When expressed in litter size per unit body weight, the Indigenous breeds were more efficient that the Large White.
LinKS Interest	Characterization of indigenous animal genetic resources
Authors	<b>Holness, D H.</b>
Title	The potential of meat production from indigenous pigs
Year	<b>1985</b>
Language	English
Location/Publisher	Wye College, UK. Paper Presented at the British Pig Breeders Society. 10

Brief Summary	<p>April 1985.</p> <p>The report is a review of data on the performance of indigenous pigs compared with the exotic Large White pigs. It was shown that Large White out performed Indigenous pigs on both improved and low quality diets in terms of growth rates and feed conversion efficiency. At slaughter, Indigenous pigs had high fat content in carcasses compared to Large White pigs.</p>
LinKS Interest	Characterization of indigenous animal genetic resources
Authors	<b>Holness, D H.,</b>
Title	Aspects of puberty in the indigenous gilt
Year	<b>1972</b>
Language	English
Location/Publisher	South African Journal of Animal Science, 2: 85-90
Brief Summary	The report is based on trials to measure the age at which indigenous pigs reach puberty. Indigenous pigs were observed to reach puberty at an earlier age and lighter weight than commercial breed of pigs.
LinKS Interest	Characterization of indigenous animal genetic resources
Authors	<b>Honhold, N, Halliwell, R W, Hale, D H, Pandey, V and Hill, F W G.</b>
Title	Production and diseases in communal land goats
Year	<b>1988</b>
Language	English
Location/Publisher	GTZ Head Office, Harare, Zimbabwe. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe.
Brief Summary	The report is based on survey data on diseases affecting goats in communal areas of Zimbabwe. It was noted that a high degree of resistance to internal parasites in indigenous goats does not warrant regular treatment of goats with anthelmintics. Losses in communal goat flocks due to worms and tick born diseases were insignificant.
LinKS Interest	Characterization of indigenous genetic resources. The high adaptability of goats to their environment reduced the need for use of drugs to control diseases.
Authors	<b>Khombe, C T</b>
Title	Environmental factors affecting the growth and viability of crossbred sheep and goats on range grazing in Zimbabwe.
Year	<b>1985</b>
Language	English
Location/Publisher	International Livestock Centre for Africa, Addis Ababa Ethiopia. Small Ruminants in African Agriculture. Wilson, R Tand Bourzart D Eds.
Brief Summary	The report analyses factors that affect productivity of goats and sheep based on observation at Makoholi Experiment Station. Factors analysed included, effect of season, litter size, sex of offspring. Goats were observed to be more prolific than sheep but survival rate was similar in both species. In both species, single born offspring were heavier than twins or triplets.
LinKS Interest	Characterization of indigenous animal genetic resources
Authors	<b>Khombe, C T.</b>
Title	Productivity of crossbred sheep and goats under a continuous mating system.
Year	<b>1989</b>
Language	English
Location/Publisher	Makoholi Experimental Station, Masvingo

Brief Summary	The report is based on a trial to assess the benefits of controlled mating compared to continuous mating system used in communal areas. Kidding interval approaches 6 to 7 months under continuous mating systems, implying that when small ruminants are bred once a year, their reproductive potential is not fully realized.
LinKS Interest	Characterization of indigenous animal genetic resources
Authors	<b>Khombe, C T.</b>
Title	The reproduction and growth of indigenous poultry in a deep litter system.
Year	<b>1992</b>
Language	English
Location/Publisher	Makoholi Experiment Station, Masvingo, Zimbabwe.
Brief Summary	The report is based on a trial to assess the productivity of indigenous chickens using data from indigenous chicken reared at the station between 1957 and 1960. Indigenous chickens had lower egg production, hatchability of eggs and poorer growth rates than exotic commercial breeds. In the communal areas, these production levels would be much lower due to prevalence of diseases
LinKS Interest	Characterization of indigenous breed of livestock
Authors	<b>Kothari, B</b>
Title	From Aural to written: the documentation of Knowledge in Ecuador.
Year	<b>1995</b>
Language	English
Location	Indigenous Knowledge and Development Monitor, Vol. 3, Issue 2. pp 9-13
Brief Summary	The article discusses the importance of documenting IK as an important step in ensuring its preservation based on studies in Ecuador. The techniques and difficulties in documentation IK are discussed
LinKS Interest	Techniques for documenting IK
Authors	<b>Manyuchi, B.</b>
Title	FAO Study on Learning to live with the Drought: Animal husbandry desk study and field surveys - Limpopo Basin Study
Year	<b>2000</b>
Language	English
Location/Publisher	FAO, Harare, Zimbabwe
Brief Summary	This report is a summary of findings on livestock production, constraints and drought coping mechanism used by local people in the Limpopo basin. The data was collected using participatory methods.
LinKS Interest	<i>In situ</i> management of animal genetic resources and documentation of IK
Authors	<b>Manyuchi, B. Pender J, Orskov E R and Mashinaidze, K</b>
Title	Livestock /wildlife interactions in areas of tsetse presence and tsetse eradication
Year	<b>1999</b>
Language	English
Location/Publisher	Natural Resources Institute, Chatham, UK.
Brief Summary	The report is a detailed study of the interactions of tsetse removal, livestock and natural resources management in the Zambezi Valley. The report discusses local perceptions on the value of livestock and exploitation of natural resources using the CAMPFIRE approach. Issues of gender and livestock ownership, sustainability and possible conflicts between livestock and natural resources utilization are discussed.
LinKS Interest	Value of livestock, management and issues, sustainability of management

Authors	<b>Manyuchi, B., Mashinagidze, K., McWilliam, A N and Long, S A</b>
Title	DDT in the Tropics: Policy Implications and Dissemination. Report on Community Consultation held in Lulsulu, Siabuwa and Chunga Wards of Binga District, Zimbabwe.
Year	<b>2000</b>
Language	English
Location/Publisher	Natural Resources Institute, Chatham, UK.
Brief Summary	The document discusses survey results on perception on the eradication of tsetse using DDT and possible sustainability of cattle/livestock dominated production systems after tsetse elimination.
LinKS Interest	Livestock production and sustainability
Authors	<b>Mason, I L and Mauler, J P.</b>
Title	The Indigenous Livestock of eastern and Southern Africa.
Year	<b>1960</b>
Language	English
Location/Publisher	CAB Technical Communication No 14
Brief Summary	A detailed description of livestock breeds of Southern Africa. Phenotypic characterization
LinKS Interest	Documentation of indigenous animal genetic resources and its biodiversity
Authors	<b>Matika, O.</b>
Title	Kid mortality in goats reared under semi-extensive system.
Year	<b>1991</b>
Language	English
Location/Publisher	Matopos Research Station Annual Report. Department of Research and Specialist Services, Zimbabwe
Brief Summary	Paper discusses and summarizes causes of kid mortality based on station results. The most important causes of mortality can be prevented through proper management such as building shelters to reduce loses exposure, supplementing does to increase milk production and reduce loss of kids due to starvation, providing creep feed to kids to reduce malnutrition.
LinKS Interest	Management of indigenous livestock genetic resources.
Authors	<b>Ministry of Agriculture</b>
Title	National Land Policy Framework
Year	<b>1998</b>
Language	English
Location/Publisher	Ministry of Agriculture, Zimbabwe
Brief Summary	A detailed description of the government's policy on land redistribution to address inequities caused by colonial government
LinKS Interest	Natural resource inequities allocation
Authors	<b>Mombeshora, B G</b>
Title	Livestock management in the communal areas of Zimbabwe: Constraints and research interventions
Year	<b>1985</b>
Language	English
Location/Publisher	DR & SS Head Office. Proceedings of the Commonwealth Secretariat Workshop on Dry land Farming Systems; East and Southern Africa. Nyeri, Kenya. 10-19 June 1985

Brief Summary The paper gives an insight into livestock management in communal areas of Zimbabwe. It draws upon survey results to suggest possible interventions to improve livestock productivity and areas needing further research.

LinKS Interest Management of indigenous livestock genetic resources

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Authors **Moyo, S.**

Title The productivity of indigenous and exotic beef cattle breeds and their crosses at Matopos.

Year **1996**

Language English

Location/Publisher Matopos Research Station, Zimbabwe. PhD Thesis, University of Pretoria, South Africa.

Brief Summary A very thorough study comparing the productivity of indigenous cattle, exotic cattle and their crosses. It is shown conclusively that indigenous cattle excel in traits relating to adaptability to the environment. Their high reproductive efficiency more than makes up for the slower growth rates and small mature weight.

LinKS Interest Characterization of indigenous cattle breeds and their merits when compared to exotic breeds.

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Authors **Moyo, S. and Mpofu, N.**

Title Breed utilization strategies for sustainable cattle production in dry areas.

Year **1999**

Language English

Location/Publisher FAO Harare, Zimbabwe. Holness, D H. Ed. Strategies for the Dry Season Feeding of Animals in Central and Southern Africa. Proceedings of a joint ZSAP/FAO Workshop held in Harare, 25-27 October 1999

Brief Summary The paper provides an appraisal of the suitability of indigenous cattle using data from breed comparison studies at Matopos Research Station. It is recommended that indigenous cows could form the basis for a cross breeding programme with exotic bulls being used to increase growth rates and weights at slaughter.

LinKS Interest Characterization of indigenous cattle breeds and their merits when compared to exotic breeds

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Authors **Moyo, S.**

Title National Livestock Policy Framework

Year **1989**

Language English

Location/Publisher Centre for Applied Social Sciences, University of Zimbabwe. Ben Cousins Ed. People Land and Livestock,

Brief Summary A concise analysis of the livestock policy in Zimbabwe. Highlights in adequacies of the policy framework especially the general neglect of the communal area livestock production sector, inadequate markets, overgrazing and environmental degradation caused by overcrowding and shortage of land for grazing.

LinKS Interest Policy on management of indigenous livestock resources.

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Authors **Moyo, S.**

Title The Land Question in Zimbabwe

Year **1995**

Language English

Location/Publisher Southern African Institute for Policy Studies. Harare, Zimbabwe.

Brief Summary	The paper describes the historical basis of the land crisis in Zimbabwe and provides a justification for the current land redistribution exercise by the government. Colonial land tenure policies resulted in the overcrowding of communal lands resulting in environmental degradation and low agricultural output. Land re-distribution is viewed as a necessary process to reduce poverty and halt degradation of the environment.
LinKS Interest	Policy on land redistribution, increased availability of resources for livestock production.

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Authors	<b>Muchena, M., 1989.</b>
Title	The effect of ox sharing arrangements on the supply and use of draught animals in the communal areas of Zimbabwe.
Year	
Language	
Location/Publisher	Centre for Applied Social Science, University of Zimbabwe. Ben Cousins Ed. People Land and Livestock.
Brief Summary	The paper describes the importance of drought animals in successful cropping in the communal areas. Inadequacy of drought power is reduced through the ox sharing arrangements. Households without drought animals benefit by hiring oxen and thus increase crop production.
LinKS Interest	The importance of livestock to cropping in communal areas

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Authors	<b>Mutetwa, D</b>
Title	The Muzarabani Goat Co-operative
Year	<b>1988</b>
Language	English
Location/Publisher	GTZ Head Office, Harare, Zimbabwe. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe.
Brief Summary	The paper describes a cooperative model for goat production in Muzarabani district and the potential application of such projects in other parts of Zimbabwe.
LinKS Interest	Management of Indigenous Livestock Genetic Resources.

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Authors	<b>Ndlovu, L and Royer, V</b>
Title	A comparative study of goat productivity in three regions of Zimbabwe.
Year	<b>1988</b>
Language	English
Location/Publisher	GTZ Head Office, Harare, Zimbabwe. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe.
Brief Summary	The paper discusses goat production in three regions of Zimbabwe. Data was derived from a survey. Characterization of goats found in Zimbabwe and their <i>in situ</i> productivity is documented.
LinKS Interest	Characterization of indigenous goats and their productivity under communal management systems.

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Authors	<b>Nyamangara, M E and Ndlovu, L R..</b>
Title	Feeding behaviour, feed intake and characterization of diets of indigenous goats grazed on natural vegetation in a high rainfall area in Zimbabwe
Year	<b>1989</b>
Language	English
Location/Publisher	Zimbabwe Journal of Agricultural Research, 27
Brief Summary	Observations were made on the grazing and browsing behaviour of goats. Goats spent most of their time browsing than grazing. Goats were observed

	to maintain a crude protein content of their diet averaging 10 percent across all seasons by varying browsing and grazing behaviour.
LinKS Interest	Characterization of the feeding behaviour of indigenous goats
Authors	<b>Oates, A V.</b>
Title	Goats as a possible weapon in the control of thorn bush
Year	<b>1956</b>
Language	English
Location/Publisher	Rhodesia Agricultural Journal, 53: 63
Brief Summary	This paper illustrates the old school of thought that goats are very destructive to the environment. Because of their preference for browse it is argued that goats could be used to control thorn bush encroachment.
LinKS Interest	Characterization of the feeding behaviour of indigenous goats
Authors	<b>Petit, H..</b>
Title	Some aspects of parasitism in communal land goats
Year	<b>1988</b>
Language	English
Location/Publisher	GTZ Head Office, Harare, Zimbabwe. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe.
Brief Summary	The paper discusses the incidences of parasites in indigenous goats and concludes that although some parasites are found in the guts of goats, their presence does not warrant use of dosing chemicals because the goats are resistant to these parasites.
LinKS Interest	Characterization of indigenous goats
Authors	<b>Prescott, J R V.</b>
Title	Overpopulation and overstocking in the native reserves of Matabeleland.
Year	<b>1961</b>
Language	English
Location/Publisher	National Archives, Harare. Geographic Journal, 127: 212-225
Brief Summary	The paper describes some of the demographic problems existing in the communal lands of Zimbabwe and the difficulties faced by the colonial government in limiting the population of livestock and humans in the native reserves. The paper also documents the existence of a transhumance system in the Nyamandlovu area where cattle were brought into the flood planes of the Nata River during the dry season and return to their original areas during the wet season.
LinKS Interest	In situ management of indigenous livestock. IK on strategies to cope with varying natural resources
Authors	<b>Reh, I</b>
Title	Goat production in the District of Bikita
Year	<b>1985</b>
Language	English
Location/Publisher	GTZ Head Office, Harare, Zimbabwe. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe
Brief Summary	The paper summarises survey data on goat production in Bikita. Deals with stock umbers, ownership patterns (including gender) and problems/constraints
LinKS Interest	Management of indigenous goats, ownership and gender issues
Authors	<b>Reh, I. .</b>
Title	Livestock numbers and holdings in Chivi District, Masvingo Province.

Year Results from a livestock census in October/November 1984.  
**1986**  
Language English  
Location/Publisher Department of Research and Specialist Services, Farming System Research Unit. Harare  
Brief Summary The paper analyses the dynamics of livestock numbers and ownership based on surveys in Chivi District. The results illustrates the skewed nature of livestock ownership, with more that 50 percent of communal farmers not owing cattle.

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LinKS Interest Livestock population and ownership trends.

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Authors **Sanford S**  
Title Management of Pastoral Development in the Third World  
Year **1983**  
Language English  
Location/Publisher John Wiley in Association with Overseas Development Institute, London  
Brief Summary The publication deals with common property management and of relevance the management of grazing lands and livestock management in communal areas. The tragedy of the commons is well illustrated.

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LinKS Interest Livestock management

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Authors **Scoones, I and Wilson, K**  
Title Households, Lineage Groups and Ecological Dynamics: Issues for Livestock Development in Zimbabwe's Communal Lands.  
Year **1989**  
Language English  
Location/Publisher Centre for Applied Social Science, University of Zimbabwe. Ben Cousins Ed. People Land and Livestock.  
Brief Summary This is a comprehensive review of the social dynamics of rural communities and how these relate to issues of livestock ownership and gender. The article discusses in detail the function of livestock, economic value of livestock, environmental degradation – economic and ecological implications, interventions based on socio-economic understanding, inequities, grazing management.

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LinKS Interest Very relevant in understanding socio-economic dimensions and IK

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Authors  
Title Sheep Handbook  
Year 1987  
Language English  
Location/Publisher Commercial Farmers Union, Harare, Zimbabwe  
Brief Summary Describes breeds of sheep found in the commercial sector and the management practices for commercial farming of sheep.

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LinKS Interest Improved management systems for sheep production.

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Authors **Shumba, E M**  
Title Livestock and the cropping system in the communal areas of Zimbabwe.  
Year **1984**  
Language English  
Location/Publisher Zimbabwe Science News, 18:7-9  
Brief Summary The paper describes the interdependence of livestock and cropping systems in communal areas of Zimbabwe. Cattle provide drought power to ensure timely planting, provide manure to fertilize crops etc, while crops residues are an important feed resource for livestock during the dry season.

LinKS Interest	Value of livestock in communal areas.
Authors	<b>Sibanda, R. and Sikosana, J</b>
Title	Direction and progress of meat-goat studies at Matopos
Year	<b>1986</b>
Language	English
Location/Publisher	Department of Research and Specialist Services, Henderson Research Station. Paper presented at a Goat Field Day at Henderson Research Station, 26 July 1986.
Brief Summary	Paper summarises research carried out at Matopos on the productivity of indigenous goats. Aspects of breeding and nutrition are covered.
LinKS Interest	Characterization of Indigenous goats
Authors	<b>Sibanda, R., 1988.</b> Diet selection in goats.
Title	Diet selection in goats.
Year	<b>1988</b>
Language	<b>English</b>
Location/Publisher	GTZ Head Office, Harare. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe.
Brief Summary	The paper describes studies carried out to assess diet selection in goats. Analysis of feed samples consumed by goats show that goats are browsers and maintain a fairly consistent diet throughout the year.
LinKS Interest	Characterizing the feeding behaviour of indigenous goats.
Authors	<b>Sikosana, J L N</b>
Title	Small ruminants in Zimbabwe with reference to feeding strategies.
Year	<b>1999</b>
Language	English
Location/Publisher	FAO Head Office, Harare. Holness, D H. Ed. Strategies for the Dry Season Feeding of Animals in Central and Southern Africa. Proceedings of a joint ZSAP/FAO Workshop held in Harare, 25-27 October 1999
Brief Summary	This is a review article on the feed preferences of small ruminants, their adaptability to the environment and utilization of browse of high tannin content.
LinKS Interest	Characterization of feeding behaviour of indigenous goats.
Authors	<b>Smith, T</b>
Title	Nutritional constraints to ruminant livestock in communal sector of Zimbabwe
Year	<b>1988</b>
Language	English
Location/Publisher	Department of Research and Specialist Services, Harare. Proceedings of the Workshop on Livestock Research and Extension for Communal Area Farming Systems held at Henderson Research Station 16-18 February 1988.
Brief Summary	The report highlights undernutrition as a major constraint to livestock production in the communal areas of Zimbabwe. Overgrazing is the major cause for food shortages, especially in the communal areas. The role of crop residues in alleviating nutritional problems in the dry season is highlighted
LinKS Interest	Problems to the management of Indigenous genetic resources in the communal areas.
Authors	<b>Tawonezvi, H P R, and Ward, H K,</b>

Title	Productivity of sheep and goats. Comparison of species.
Year	<b>1987.</b>
Language	English
Location/Publisher	Zimbabwe Journal of Agricultural Research, 25: 59-64
Brief Summary	The paper compares the productivity of indigenous goats and sheep under similar management. The study showed that goats and sheep have similar reproductive rates but goats achieved higher twinning rates and survival rates than sheep. Goats were 32 percent more productive than sheep
LinKS Interest	Characterization of indigenous breeds of goats and sheep.
Authors	<b>Theisen, R J and Marasha, J.</b>
Title	Livestock in Que Que Tribal Trust Lands: An Ecological Study of the Importance of Livestock to Development.
Year	1974
Language	English
Location/Publisher	University of Rhodesia
Brief Summary	On the basis of survey results, the paper attempts to draw relationships between livestock ownership and other aspects of household development e.g. the link between livestock ownership and drought power/crop yields, food security, wealth etc.
LinKS Interest	The socio-economic role of livestock in communal areas.
Authors	Thomas, T M.
Title	Ceremonies of Ndebele Marriage
Year	<b>1926</b>
Language	English
Location/Publisher	National Archives, Harare. The Southern Rhodesia Native Affairs Department Annual (NADA), pp43
Brief Summary	The paper provides a detailed account of the marriage ceremonies of the Ndebele people. Of importance is the role of livestock in these ceremonies as payment for lobola and initiation ceremonies
LinKS Interest	IK on the socio-cultural role of livestock
Authors	<b>Tiffin, J de W,</b>
Title	Angora Goats in Zimbabwe
Year	<b>1988</b>
Language	English
Location/Publisher	GTZ Head Office. Harrison, J Ed. Goat Development Workshop held in Bikita, Zimbabwe
Brief Summary	The paper describes the importance and management of Angora goats. Angora goats are valued for their fur which is used for the production of highly priced fabrics
LinKS Interest	Exotic breeds of goats found in Zimbabwe.
Authors	<b>Warren, D. M., Rajasekaran, B</b>
Title	Putting Local Knowledge to Good Use
Year	<b>1993</b>
Language	<b>English</b>
Location/Publisher	International Agricultural Development, Vol.25
Brief Summary	The report is an appraisal of IK and its importance in the sustainable management of natural resources. The report criticises the common perception that IK is backward.
LinKS Interest	Importance of IK

