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10th ICG, September 19-23, 2010: Technological development and associated attempts toward sustainable small ruminant production

Dear IGA members,

Researchers of international renown will meet in Mar Hotel Recife, Pernambuco, Brazil, from September 19-23, 2010 to discuss • problems and solutions for the improvement of goats worldwide. This is the 10th International Conference on Goats (IGA 2010), central theme whose associative attempts sustainable small livestock the production.

Several wonderful international Nations Food speakers have been confirmed:

- Dr. Corrie Brown, a researcher (www.fao.org). at the University of Georgia (USA), who will talk about The event of the 2010 diseases of goats and their IGA is the result of a economic impacts.
- Dr. Robert Orskov, a researcher the National Institute for at the Macaulay Land Use Semiarid Institute Research responsible for improving the Rural de Pernambuco evaluation methodology used (UFRPE), for food today, will address the Enterprise new challenges in the feeding Agricultural ruminants small developing countries
- Dr. Maria Wurzinger, researcher at the University of Company

Sciences. BOKU discussing breeding strategies participation based on knowledge of small students. producers.

small goat production around publicize our event. the world.

Technological development and Besides these names, the event will www.iga2010.com.br. a be attended by representatives of International Fund Agricultural Development (IFAD) Maria Norma Ribeiro (www.ifad.org) and the United Executive Committee and Organization (FAO)

> partnership between (INSA/MCT), (UK) Universidade Federal Brazilian for Research for (EMBRAPA/CNPC), Federal University of a Paraíba (UFPB) and

> > Paraibana

Agricultural Research (EMEPA). Many scienfific activities will be offered as symposia, short courses, discussion forums, oral session to present selected papers as well as poster session. Moreover, will be technical visits, fashion shows and a gastronomic festival.

The program is designed for goat industry experts, farmers, technicians and undergraduate and graduate students. The best scientific studies presented at the event will be published in the Journal of the IGA, Small Ruminant Research. which has wide international circulation.

Only two years after Querétaro, we Natural Resources and Applied have more than 300 subscriptions, (Austria), 350 papers received and a great of farmers

Dr. Jean-Paul Dubeuf, IGA As a member of this board and on President, will speak about behalf of the Executive Committee, "Diversity and challenges for I request your commitment to

> Visit the conference website:

for Best regards,

IGA Agriculture Board Member

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Recife - Brazil

Sheep and Goats in Iran

Written by Farhad Mirzaei

Iranian sheep and goats have the in between the provinces. world's sixth and fifth ranks for 6000 years, the hilly region of 1.5 to 6 months with the herd. of the available

Sarab in Iran was the origin of the world's woolsheep.

In a 2000 census, it was reported that sheep and goat populations reached to 54 and 27 million heads respectively <u>(Tab</u>le accounting for a GDP equal to

billion. \$7.6 composes 400,000 tons of meat, million sheep and lambs which production. Besides, three other 820,000 tons of milk, 60,000 increased to 54 million by 2001 pelt breeds exist in the country. tons of wool, 8400 tons of goat (8.2% growth), comprising of 26 More than 96.3% Iranian sheep fuzz and hair, 22 million skins pure breed and their hybrids are fat tail and the 4% semi-fat and 188,000 tons of guts.

involved in sheep and goats growth) bearing 9 native breeds northern areas and Caspian breeding which plays a significant and their hybrids (enclosed maps shore (Table 1-6). Different goat economic role in rural and numbers 6 and 7 indicate the breeds are raised for their meat, nomadic livelihood. In fact, such sheep and goats distribution by milk and hairs. flocks constitute an outstanding regions in the country). capital quite influential in their households. Averagely, 22.6% of Most Iranian sheep and goat together with less populous sheep and goat populations are breeds primarily impressed and ones as "Marghoz", "Najdi" and reared under nomadic and semi- developed by natural selection "Tali". and nomadic remaining 77.4% are managed condition, followed by impacts Traditional, nomadic and semihousehold keeps about 95 sheep upon their breeding tribes or identified. Normally, nomads and movement and shepherding are Iranian sheep or goats are not implicate traditional system. almost

countrywide. are used to displace their flocks percent

the quality of their meat and Generally, rams are integral performance Additionally, based on parts of the rural herds, while in constitutes 2% of the total sheep archeological findings dating back nomadic system; they only stay and goat population. Nearly 65%



(Table I-5). This expresses an increase from 24.7 tailed breed together with well-At present, more than 1.6 to 27 million heads of goat known semi-fat Taleshi people are directly during the same period (3.2% Dalagh (Atabai) breeds living in

the and adaptation to environmental composite (rural-farm) from various breeders. These nomadic rural/nomad breeds are traditionally named operation Traditional geographical origin. To date, rural communities are used to conventional racially registered but claimed as

Animal-keepers native stocks. Only a of many identified breeds have undergone National Breeding Plan (Ram test) which

relatively pure whereas the remaining 35% are hybrid. Less 14% than of goats are genetically pure 86% and are categorized as either scrub and mixed or untitled.

Many sheep breeds are multipurpose and

This potential In 1991, there existed 47.7 used for meat, milk and wool trend or tailed breeds. "Zel" is the sole There populous and famous breeds as "Raeini" "Siahmouie", and

> maior are the systems

> > Continued on page 3

Sheep and Goats in Iran (continued from page 2)

Semi-intensive predominantly fattening and breeding of sheep animal-keepers, and goats in farms, whereby in particular intensive system, sheep tend to opportunities for locally adapted exchange fluctuations. In semiby public holdings and large few foreign breeds, e.g. Sanan either rural, nomadic or semicooperatives. In nomadic and goat, Merino sheep, and Suffolk nomadic, semi-nomadic breeding systems, were recently imported for originates from dryness, social species horses, mules and sometimes came up with new hybrids camels are kept together with which however were not fully Presently, social changes and sheep and goats mainly for developed for some reasons. demand for more welfare may transportation purpose.

Moreover, the system composes of some poultry i.e. hens. cocks, geese, ducks and turkey, living with sheep and goats as the main flocks near the black tents. At the rural level, in addition to sheep and cattle goats, poultry farming and in places, buffalo and camels are also conventional. industrial and semi-

enjoy rather productive and farms enjoy public ownership. breeds for heavy raising intention (Table 1-7).

In triple system, raising sheep animals shall comprise of locally adapted traced. There strips, for instance Pakistani imported drugs for veterinary sustainable development and goats along the Iranian south- purposes. So, any fluctuations in genetic resources protection, eastern border are very similar imported medicines, cannot relying on the state of the art to Bital and Tary breeds. Given affect them significantly. Flocks technology and know-how the diversified climates, ranges, reared in industrial systems are

there importance i.e. research and training centers, changes and access to capital.

systems traditional rearing systems, and relatively less vulnerable to represent socio-economic status of the dryness, social issues, access to are capital and labor force, but and rather sensitive to diseases and be grown at agro-industries run breeds. Also worth noting are a intensive and extensive systems greatest impact

Sheep and goat husbandries are create serious threats to rural

nomadic rearing systems, and if not appropriately addressed, the production shall experience drastic loss. In view to remarkable population rise rural the level, scarcity of resources, the socio-economic problems, and basic changes in



industrial systems, raising any predominantly run by private consumption species (goats and sheep) is ownership. Cooperative units expects specially conducted for their constitute smaller portions and inclination of traditional and meat. These systems practically minor industrial sheep-breeding subsistent

> and albeit, Nowadays, exist some breeding systems is mostly self- cycle.

patterns, there fundamental a sheep and production towards intensive and semi-intensive systems. This Generally, sheep and goat herds scenario entails a rapid switchinclude 100 to 150 productive over to adapted breeds upon other indigenous stocks which may thoroughly quantities are more or less lead to elimination of some lowsheep yield breeds from production Therefore, genetic disturbances at border sufficient followed by negligible tasks have to be foreseen for

Continued on page 4

Sheep and Goats in Iran (continued from page 3)

workable goats grasping mechanisms for action.

wool, quail, skin, hair, mohair, for edible and inedible additives outputs. economy of scale assumes as the resources, all feature in Meat production deserves the expose serious risks in future. first priority in all regions, but occupied by milk and fibers, pastorals significant role played by exotic impacts totally consumed domestic markets, and

markets. Goat hairs are partially exported while its mohair used for knitting traditional cloths. Sheep skins are greatly exported as pickles, whereas goat skins used as leather for local purposes. All guts have domestic consumption but intestines are exported after treatment.

Manures are normally applied as greater welfare have contributed supported fertilizers or sometimes as fuel in giving up nomadic and semi- production, or improved quality by rural households.

significant change experienced in

national scale. Hopefully, introduction of Therefore, due to prevailing enabling systems in future, may climatic, socio-economic In a preferred order, meat, milk, lead to deserve higher shares environmental conditions plus the afore-mentioned government consideration, there Unless a reliable are form the most important sheep condition created for optimum development of semi-industrial and goats products. To date, utilization of native genetic system compared to traditional sheep yields and in particular, the breeding operation (Table 1-8), animal protein provision would It is expected to compensate the

were Noteworthy that there is no mainly owing to socio-economic makers and professionals at the and animals in sheep and goat policies. For instance, reduce decades, breeding in Iran. Meat and milk the pastures and range area, diversification was enforced in in destruction of pastures, pasture milk and dairy products mainly the and livestock equilibrium plan, by importing the state of the art sheep wool is employed in withdrawal of livestock from of technology in processing and carpet weaving industry but the forest and range areas, tendency packaging fields. Meat and skin quails are exported to foreign to migration, urbanization, and also

the foregoing and industrial ones. missing shares by implicating suitable change in semi-industrial sometimes, its position could be In the last decade, traditional mode which however, entails decreasing serious considerations by policygovernment national level. Over the past outstanding

chances

promising

diversified enjoyed

outcomes.







nomadic pastoralism. The same and quantity of the products, adventure runs in public-owned which rationalizes further inputs Over the past decades, no industrial systems explicitly for for an integrated patronage. was poor policies formulated on relative entrusting such holdings to To see all four Tables, visit our production shares of sheep or private or cooperative entities.

ln general, tangible progressions are now realized in recording techniques, genetic breeding, technical supports and processing industries (slaughterhouses, dairy plants, etc). Such steps have either

producer and

website or click here.

A Network Proposal on Goat Carcass Quality and Meat Evaluation

Country Representative, Portugal

Hopkins et al., 2007 and Teixeira et still is a great challenge. al., 2006 and 2008).

composition, based on a reduced understanding, experimental conducted by Delfa precision of proposed al. (2008)simultaneous partial least squares (PLS) or allowing the monitoring of an on- teixeira@ipb.pt

Written by Alfredo Teixera, IGA artificial neural networks (ANN) to line evaluation system of goat built a model to simultaneous several goat fat A recent development to improve depots. So, the use of rapid and In this sense the main objective of the prediction of body or carcass accurate methodologies to predict the present work will be to composition in small ruminants body or carcass composition of live demonstrate the necessity using ultrasound technology (RTU) animals and to assess objectively organize a world network to build a has been made (Silva, et al., 2006; the carcass quality has been and database,

Particularly in goats Teixeira et al. processors and consumers the maturity (2008) provides suitable models to knowledge of tissue composition carcasses that proportionate the estimate muscle and goat fat and distribution, the partitioning of development of general, robust, depots. With the perspective to use fat and muscle units has become and more reliable models to swiftly a unique model to estimate body more and more important. In our assess goat and carcass body number of predictors (Peres et al., technology such as RTU together implement a modern and objective 2010) using the database from the with ANN may improve the on-line technique predictions (2004) and published by Teixeira et contribute to implement objective classification. the methods that are able to assess using a multiple body or carcass composition For

predict carcass and meat quality.

covering the most relevant carcass and body compositions data, for the most For producers as well for retailers, important goat breeds at different electronic compositions, and evaluation and marketing

> information email:

Book: Goat Science and Production

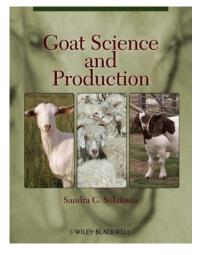
first text in several decades to requirements. Information on milk, present comprehensive, state of the meat, and fiber production is also art information on goat science and addressed, along with a key chapter international perspective. Including marketing information on meat, dairy, and concludes fiber goats, chapters are organized discussion on further needs in logically to facilitate fundamental research and education providing understanding of goat anatomy and direction for future progress. physiology as well as practical production applications.

Goat Science and Production begins an necessary context to enhance world-wide. subsequent chapters on breed variety, genetics, animal evaluation, The cost of Goat Science and She is also an Adjunct Professor at anatomy functional physiology. Later chapters expand ISBN: 978-0-8138-0936-6 on these concepts highlighting Hardcover, 444 pages application practical feeding practices, health

Goat Science and Production is the disease management, and housing practices from an on formulating a business plan and strategy. The with

Goat Science and Production is globally contributed and provides Sandra essential with an overview of current global reference for students, researchers, Professor of Animal and Poultry production, giving the reader outreach personnel, and producers Sciences and Director of the Small

> and *Production* is \$124.99 USD. affecting March 2010, Wiley-Blackwell



G. Solaiman, introduction and Professional Animal Scientist, is Ruminant Research and Education Program at Tuskegee University, AL. Mississippi State University, MS, and Auburn University, AL.

To find this book online, click here.



Centro Cultural Municipal de Mirandela **Auditório Principal**



CAPRA 2010 — 2nd National meeting on goats in Portugal

Alfredo Goat Breeders (ANCRAS), the Agriculture School benefit of (ESA) of the Bragança Polytechnic Production. Institute (IPB) and the Mountain Research Centre (CIMO), are going Accomodation to organize The Second Portuguese The conference secretariat will not presentation (oral or as a poster). Goat Production Meeting.

28-30, 2010.

Meat and Milk production, Animal see at: Breeding and Genetics, Nutrition, http://esa.ipb.pt/capra2010/ Biology Goat Systems, Behaviour, Welfare and Health. Round tables, and technical visits to goat farmers please contact: capra@ipb.pt

The IGA country representative for will be an exciting opportunity for Texeira, in breeders, students, professors and Call for papers association with National Serrana researchers to meet and spend All authors wishing to present Association time in a friendly way for the papers Portuguese

be responsible for accommodation The meeting will take place in Participants are invited to book Word file template provided on Mirandela (Portugal) from October accommodation directly with the the hotels.

The main subject areas covered Hotel addresses from Mirandela,

Production index.php/alojamento

paper Further Information

sessions presentations, discussion For all additional information, coffee breaks, lunches (3 days) and

at the meeting Goat requested to submit the papers before September 30th.

Authors should indicate the type of booking Papers with a maximum of 5 pages, should be written according the conference's website: esa.ipb.pt/capra2010 or the English language website.

Registration Fees

The Registration fee of 100 € includes: attendance to all sessions; conference documentation, proceedings, meeting dinner (Friday).

Summary: Valorisation of the traditional "Darfiyeh" goat cheese as a contribution to the development of the Northern Lebanon mountain

"Darfiyeh", a cheese traditionally cleaned, as a container for the agreat presence on the market. made in northern Lebanon, is a ripening process.

highly appreciated goat cheese product is prepared by the

with an exceptional taste and a Due to the seasonal milk goat carried out in the dairy plant of the typical manufacturing procedure. production, the finished products Agricultural Center of the North-Produced from raw milk, in can only be present periodically in René Moawad Foundation, in order mountain regions, where extensive the market. "Darfiyeh" cheese has to obtain the original cheese with breeding is still practiced, this a long conservation period which an special cheese allows it to be available during the encourages the consumption of a farmers whole year. For this reason, all traditional cheese and improves the themselves. The cheese making Lebanese farmers show their farmer's social situation. process requires the use of goatskin interest in this kind of cheese known as "Dariff", salted and well production, even if it does not have

Experiments on "Darfiyeh" are improved quality. This

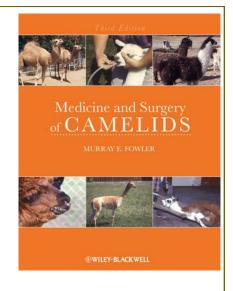
Book: Medicine and Surgery of Camelids

Medicine and Surgery of Camelids is and veterinary students. classic comprehensive reference on llamas, vicunas, guanacos, and camels. • With information on topics ranging from nutrition and management to infectious diseases and emergency • care. this book provides information on the health and maintenance of these species. Updates to the Third Edition include new information on camels; full throughout; color significant revisions to the parentage infectious verification, diseases, anesthesia, restraint, and nutrition The cost of Medicine and Surgery of Medicine sections; and additional information Camelids is \$149.99 USD. on the alpaca genome. This is an ISBN: 978-0-8138-0616-7 essential resource for practicing Hardcover, 636 pages

alpacas, Key Features:

- The classic comprehensive reference on llamas, alpacas, vicunas, guanacos, and camels.
- Includes expanded information on camels; significant updates to the parentage verification, infectious diseases, anesthesia, restraint, and nutrition additional sections: and information on the alpaca genome.

veterinarians, zoo veterinarians, August 2010, Wiley-Blackwell



Fowler, DVM, Murray Ε. Professor Emeritus of Zoological at the School Veterinary Medicine, University of California - Davis.

To find this book online, click here.

Summary: Goats in arid areas and under harsh conditions

A communication during the IGA regional conference in Fuerteventura, April 2003

advantage of goats under arid diversity of situations. conditions, but in spite of local cases of success, goat production Being stated that the nature of or productivity, limited resources and low training level of projects, Examples of breeders. systems Cyprus,

Animal Production Science has Morocco, Egypt, Spain, Argentina For each project a previous analysis produced many references on the and Peru have confirmed the of its specific advantages and limits

systems are often limited by low public interventions would be recommended for a better impact forage decisive for the dynamics of goat and success of rural development three types these interventions (liberal, global and climatic uncertainty. Tunisia, local participatory) are developed.

for goats recommended. Research action and participatory co-operative methods of of dry zones and reduce the

Announcement: 9th ICG Plenary Papers published in SRR

Dear Readers,

issue of Small Ruminant Research: All IGA members have access to April, Volume 89, Issues 2-3, Pages this publication through their SRR

have been published in a special

The plenary papers of the 9th 63-244. This issue was edited by online subscription. If you are not International Conference on Goats Jorge R. Kawas, IGA Board Member. an IGA member you can preview

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