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SMALL RUMINANT
COLLABORATIVE RESEARCH
SUPPORT PROGRAM
RESEARCH PUBLICATION
AND
TRAINING ROSTER
1978-1985



**SMALL RUMINANT
COLLABORATIVE RESEARCH
SUPPORT PROGRAM
(SR — CRSP)**

**UNIVERSITY OF CALIFORNIA
DAVIS, CA 95616**

PN-100-424

Small Ruminant
Collaborative Research Support Program
Research Publications
and
Training Roster
1973-1985

Prepared by the Management Entity
August 1985

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Introduction

The Small Ruminant Collaborative Research Support Program (SR-CRSP) is a joint effort of the US Agency for International Development, US universities, and government agencies in five developing countries. It has been supported by a Title XII grant over a seven-year period and by contributions from participating institutions. The program is administered as a grant to the University of California, Davis, which, through a management entity, provides subgrants to US participants and maintains fiscal accountability.

Currently the program is engaged in research and training in five countries: Brazil, Indonesia, Kenya, Morocco, and Peru. Supporting research of a more basic or technically complex nature is carried out in the US. The SR-CRSP research programs are all multi-disciplinary and the varying degrees of integration between disciplines reflect, in large measure, the demands of the program in each country. Funding is available for three additional program years, through September 1987. Extension through 1990 is under consideration. This will enable training and overseas research to generate sufficient progress and momentum such that further research, after the conclusion of the SR-CRSP, can become self-sustaining under the auspices of host country governments.

The present document summarizes the research record of the SR-CRSP. It is intended to be a bibliography that will provide an introduction to SR-CRSP scientists through their work. Listings with NTIS access numbers can be ordered by writing to the National Technical Information Service, United States Department of Commerce, 5285 Port Royal Road, Springfield, Virginia 22161, USA. Others may be obtained by writing to the Principal Investigators at their respective institutions shown on pages iii and iv of this document.

A published summary of the SR-CRSP program-training, institution-building and research accomplishments is available in the five-year report of activities titled "Partners in Research", the Annual Report for 1983-84 and 1985 Comments on SR-CRSP by Participants. Limited numbers of these documents may be obtained from the Management Entity at: Small Ruminant CRSP, University of California, Davis, CA 95616, USA.

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Refereed Journal Articles

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- Mathius, I. W., M. Rangkuti and L. P. Batubara. 1983. Groundnut Straw as a Feedstuff for Sheep. *Bulletin Lembaga Penelitian Peternakan No. 32.* **NCSU/BPT-Nutrition**

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- McGuire, T. C., J. Regnier, T. Kellom, and N. L. Gates. 1983. Failure in Passive Transfer of Immunoglobulin G₁ to Lambs: Measurement of Immunoglobulin G₁ in Ewe Colostrums. *Am. J. Vet. Res.* 44:1064-1067. **Washington-Health**
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- Reiner, R. and F. Bryant. 1983. A Different Sort of Sheep. Rangelands. 5(3):106-108. **Texas Tech-Range**
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- Thomas, N. 1983. Modelling Small Ruminant Production Systems for Indonesian Villages. Seminar, Dept. Anim. Science, NCSU and Balai Penelitian Ternak, Bogor, Indonesia. **NCSU-Nutrition**
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TRAINING-SR-CRSP SPONSORED STUDENTS IN DEGREE PROGRAMS IN US.

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Aboud, Abdillahi ¹	MS Rural Sociology	Missouri	9/79 - 3/82	Kenya
Ahuya, C.O.	BS Animal Science	Texas A&M/Breeding	1/84 - 12/85	Kenya
Aguirre-Terrazas, Lucrecia	MS Range Science	Texas Tech	12/83 - 9/85	Peru
El Aich, Ahmed ²	PhD Range Management	Utah/Range	6/81 - 9/86	Morocco
Alves, Francisco Selmo A.	MS Comp. Pathology	UCD Health	5/85 - 5/88	Brazil
Anderson, Val ³²	MS Range Management	Utah/Range	6/82 - 5/85	US
Artz, Neil ³²	MS Range Management	Utah/Range	6/81 - 3/83	US
Baker, Jerry ³	PhD Animal Breeding	Texas A&M/Systems	9/79 - 12/81	US
Barbosa, Eneas L. R.	MS Range Management	Texas A&M/Breeding	6/83 - 9/85	Brazil
Bari, Johnson	MS Veterinary Microbiology	Washington	9/80 - 6/84	Kenya
Berkat, Omar ⁴	PhD Range Science	Utah/Range	10/81 - 7/84	Morocco
Bilinsky, Paula ³³	MS Rural Sociology	Missouri	9/82 - 12/85	US
Blackburn, Harvey ³⁵	PhD Animal Breeding	Texas A&M/Systems	10/79 - 12/84	US
Boujenane, Ismail ²⁸	PhD Animal Breeding	UCD Breeding	9/83 - 12/86	Morocco
Bojorquez, Custodio	MS Range Science	Texas Tech	1/84 - 12/85	Peru
Boor, Kathryn ^{3,53}	MS Food Science	Winrock/Systems	9/81 - 9/83	US
Bougi, Natalie ³	MS Animal Breeding	Texas A&M/Breeding	1/84 - 5/86	Brazil
Bravo, Walter	MS Reproduction	Utah/Reproduction	3/84 - 6/86	Peru
Brenni, Geanlucca ³	PhD Animal Breeding	Texas A&M/Systems	1/79 - 6/83	Switzerland
Brown, Lynn E.	MS/PhD Animal Nutrition	North Carolina	9/78 - 12/83	US
Brown, Corrie ³⁴	PhD Comp. Pathology	UCD Health	8/83 - 3/84	US

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Burstein, Helaine ³⁴	PhD Animal Nutrition	North Carolina	9/81 - 12/85	US
Chafik, Azziz ²⁸	MS Animal Breeding	UCD Breeding	9/84 - 9/86	Morocco
Carey, Jim	MS Animal Science	Texas Tech	8/82 - 8/84	US
Castilla, Domingo Martinez ⁵	MS Production Economics	Winrock/Economics	1/81 - 12/82	Peru
Chavez, Juan F. ³	PhD Biology	Montana	3/83 - 3/86	Peru
Coronado, Luis	MS Animal Breeding	Texas A&M/Systems	2/81 - 12/83	Peru
Drobnis, Erma ³	MS Animal Science	Cal Poly	4/79 - 8/81	US
East, Nancy ³⁴	MPVM	UCD Health	8/79 - 1/80	US
Ellis, John DVM ³³	PhD Pathology	Colorado	8/80 - 7/83	US
Farfan, Ramiro ⁶	MS Range Managment	Texas Tech	9/80 - 12/82	Peru
Fernandes, Antonio Amaury Oria ³	MS Animal Breeding	Texas A&M/Breeding	9/82 - 12/86	Brazil
Fierro-Garcia, Carlos	PhD Range Science	Texas Tech	1/82 - 8/85	Mexico/Peru
de Figueirido, Elsio Antonio Pereira ³	PhD Animal Breeding	Texas A&M/Breeding	7/84 - 9/86	Brazil
Flores, Enrique ⁶	MS Range Management	Utah/Range	9/80 - 12/83	Peru
Flores, Enrique ³	PhD Range Management	Utah/Range	4/85 - 3/88	Peru
Garcia, Laura ³	MS Animal Science	Cal Poly	4/81 - 4/83	US
Garcia, Omar ³	PhD Genetics	UCD Breeding	9/78 - 8/81	Venezuela
Garmendia, Antonio ³	PhD Vet. Immunology	WSU/CSU	9/82 - 9/85	Peru
Gaskins, Rex ³	MS Animal Nutrition	North Carolina	8/81 - 5/86	US
Gathuka, Zachariah ⁷	MS Animal Breeding	Texas A&M/Systems	9/80 - 5/82	Kenya
Gobena, Amanual	PhD Range Science	Utah Range	1/84 - 6/87	Ethiopia
Gonzales, Gonzalo ³	PhD Genetics	UCD Breeding	7/80 - 9/82	Uruguay

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Gutierrez, Nestor ^{8,34}	PhD Agricultural Economics	Winrock/Economics	10/79 - 1/83	Colombia
Hardesty, Linda Howell ³⁴	PhD Range Science	Utah/Range	12/81 - 4/86	US
Haryanto, Budi ³	PhD Animal Nutrition	North Carolina	1/81 - 5/85	Indonesia
Hatch, Patricia ³	MS Animal Science	North Carolina	8/82 - 12/84	US
Hawariatt, Girma ³	PhD Animal Breeding	Texas A&M/Systems	9/78 - 12/82	Ethiopia
Howard, Pamela Jo ⁹	MS Marketing	Winrock/Economics	1/81 - 12/81	US
Howard, Pamela Jo	PhD Animal Breeding	Texas A&M/Systems	9/82 - 9/85	US
Huapaya, Gladys	Animal Breeding	Montana	4/85 - 7/85	Peru
Hussein, Mohamed	MS Range Management	Utah/Range	12/80 - 12/83	Morocco
Jamtgaard, Keith ³³	MS Rural Sociology	Missouri	1/79 - 12/82	US
Jaramillo, Mauricio	MS Ag. Econ.	Winrock/Econ	6/84 - 5/85	Peru
Jimenez, Lidia	MS Rural Sociology	Missouri	9/81 - 5/85	Peru
Job, Morgan ^{10,35}	PhD Agricultural Economics	Winrock/Economics	6/80 - 12/82	Trinidad/Tobago
Khainga, Mohammed Salim ²²	MS Range Science	Texas Tech	8/84 - 9/86	Kenya
Kibuchi, James N. ¹¹	MS Animal Management	Winrock/Management	9/80 - 7/82	Kenya
Kimotho, Judith W. ¹²	MS Animal Science	Cal Poly	8/81 - 6/84	Kenya
Kiriro, Philip	BS Animal Breeding	Texas A&M/Systems	1/81 - 6/83	Kenya
Kirmse, Robert ³⁴	PhD Range Management	Utah Range	4/82 - 12/84	US
Kooyman, David ³	MS Animal Science	Cal Poly	8/82 - 6/84	US
Kronberg, Scott ³⁴	PhD Range Science	Utah Range	9/83 - 4/87	US
Lasslo, Laurel ³	PhD Genetics	UCD Breeding	7/80 - 6/82	US
Leonard, Ellen	MS Animal Science	North Carolina	9/83 - 12/86	US
Lewis, Ron ³	MS Animal Breeding	Texas A&M/Breeding	9/83 - 9/85	US
Luginbuhl, Jean-Marie ³²	PhD Animal Nutrition	North Carolina	6/79 - 1/83	Switzerland

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Mann, Debora ³	MS Animal Science	North Carolina	9/78 - 7/84	US
Mandari, Godfrey ¹²	MS Animal Science	Cal Poly	8/80 - 8/82	Tanzania
Mathenge, James	MS Animal Breeding	Texas A&M/Systems	6/80 - 12/81	Kenya
Mathuva, Moses ²³	MS Animal Production	Winrock/Management	9/82 - 12/83	Kenya
Mbabu, Adiel Nkonge	PhD Rural Sociology	Missouri	8/84 - 12/87	Kenya
Mbwiria, Stanley	MS Veterinary Physiology	Washington	4/81 - 4/84	Kenya
McCorkle, Constance ^{13,33}	PhD Anthropology	Missouri	2/80 - 12/82	US
Mendes, Lloyd ^{25,32}	PhD Range Management	Missouri	4/84 - 10/85	US
Mesquita, Roberto ³	MS Range Management	Utah/Range	9/82 - 6/85	Brazil
Mole, Jane	PhD Reproduction	Utah/Repro	1/82 - 6/84	US
de Moraes, Elino A. ³	PhD Range Science	Texas A&M/Breeding	9/81 - 9/85	Brazil
Mortimer, Dana Lee ^{14,35}	MS Animal Health	Winrock/Economics	6/79 - 5/82	US
		Washington		
Muhuyi, William ¹²	MS Animal Science	Cal Poly	6/80 - 6/82	Kenya
Mukisira, Ephraim ¹⁵	MS Ruminant Nutrition	Winrock/Management	8/82 - 8/84	Kenya
Muljadi, Agus ¹⁶	MS Production Economics	Winrock/Economics	5/81 - 7/83	Indonesia
Mwamachi, Derrick	MS Veterinary Science	Washington	1/83 - 6/86	Kenya
Mwandotto, Bonfance ³	PhD Animal Breeding	Texas A&M/Systems	9/81 - 6/84	Kenya
Narjisse, Hamid ³	PhD Range Management	Utah/Range	8/79 - 5/81	Morocco
Neira, Roberto ³	PhD Animal Genetics	UCD Breeding	4/81 - 8/82	Chile
Nelson, T.C.	PhD Animal Breeding	Texas A&M/Systems	8/79 - 7/80	US
Nelson, Dennis ³³	PhD Comp. Pathology	Colorado	7/83 - 7/84	US
Neumaier, Marisa ³	MS Rural Sociology	Missouri	6/81 - 8/83	Brazil
Njanja, J.	MS Veterinary Parasitology	Washington	4/82 - 4/85	Kenya
Nobel, Amanda ³⁵	MS Rural Sociology	Missouri	9/79 - 8/82	US
Nolte, M. Enrique ¹⁷	PhD Agronomy	Ohio St./Texas Tech	8/81 - 11/84	Peru

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Norris, Therese ³	MS Physiology/Reproduction	Texas A&M/Breeding	9/84 - 9/86	US
Novoa, Cesar	PhD Repro. Physiology	Utah/Reproduction	1/81 - 7/84	Peru
Nyaribo, Fanny ¹⁴	PhD Agricultural Econ.	Winrock/Economics	8/84 - 8/87	Kenya
Odenya, William ⁷	MS Animal Science	UCD Genetics	3/80 - 6/82	Kenya
Okeyo-Mwai, Alfeyo ³¹	MS Animal Science	Texas A&M/Sytems	9/81 - 6/84	Kenya
Oliveira, Ederlon ³	PhD Range Management	Utah/Range	9/83 - 9/86	Brazil
Oluoch, Elizabeth ³	MS Protozoology	Washington	9/84 - 9/85	Kenya
Otieno, Kenneth ²³	MS Science & Plant Ag	Winrock/Systems	9/84 - 12/85	Kenya
Padilla C., Terezinha	PhD Comp. Pathology	UCD Health	1/82 - 1/85	Brazil
Perevolotsky, Avi ^{18,33}	PhD Anthropology	Missouri	8/81 - 9/83	Israel
Pfister, James A. ³⁴	PhD Animal Nutrition	Utah/Range	9/79 - 6/83	US
Pitts, John	MS Range Science	Texas Tech	1/82 - 12/83	US
Prabowo, Akhmed ³	MS Animal Nutrition	North Carolina	1/84 - 12/85	Indonesia
Queiroz, Joao S. de	PhD Range Management	Utah/Range	4/80 - 6/85	Brazil
Quiroz, Roberto	MS Animal Nutrition	North Carolina	5/82 - 8/84	Panama
Quiroz, Roberto	PhD Animal nutrition	North Carolina	8/84 - 8/86	Panama
Ramirez, Antonio	PhD Microbiology	Colorado	6/82 - 6/86	Peru
Reese, Alice ³⁶	PhD Nutrition	North Carolina	8/84 - 8/86	US
Reiner, Richard ³³	PhD Range Science	Texas Tech	6/82 - 5/85	US
Reirra, Linda ³⁰	Virology/Serology	Colorado	2/84 - 2/85	Peru
Rosadio, Raul	PhD Vet Pathology	Colorado	9/83 - 12/86	Peru
Rotich, Daniel ³	MS Animal Science	Cal Poly	6/82 - 6/85	Kenya
Samsell, Lennie ³	MS Animal Science	North Carolina	9/83 - 7/86	US
Sands, Michael ^{19,35}	PhD Animal Science	Winrock/Management	1/80 - 8/82	US
San Martin, Felipe	PhD Range Science	Texas Tech	1/84 - 12/86	Peru

<u>NAME</u>	<u>DEGREE</u>	<u>PROGRAM</u>	<u>TRAINING DATES</u>	<u>NATIVE COUNTRY</u>
Schacht, Walter ³⁴	PhD Range Management	Utah/Range	1/84 - 12/87	US
Silitonga, Sorta ²⁰	MS Animal Nutrition	North Carolina	4/81 - 12/82	Indonesia
Simplicio, Aurino ³	PhD Repro. Physiology	Utah/Reproduction	8/82 - 12/85	Brazil
Smith, Barbara ³	MS Animal Science	North Carolina	1/84 - 12/87	US
Snowder, Gary	PhD Animal Breeding	Texas A&M/Breeding	9/84 - 9/85	US
Soedjana, Tjeddy ²⁶	PhD Agricultural Econ.	Winrock/Production	8/84 - 8/87	Indonesia
de Sousa, Wandrick Haus	MS Animal Breeding	Texas A&M/Breeding	7/85 - 9/87	Brazil
Subandriyo ²¹	MS Animal Breeding	UCD Genetics	3/82 - 6/84	Indonesia
Suradisastra, Kedi	MS Rural Sociology	Missouri	1/81 - 1/83	Indonesia
Suradisastra, Kedi ³	PhD Rural Sociology	Missouri	2/83 - 1/87	Indonesia
Swindale, Anne ^{27,33}	MS Rural Sociology	Winrock/Econ	1/84 - 12/84	US
Tallum, Steven	MS Animal Science	Texas A&M/Systems	1/83 - 9/85	Kenya
Tiesnamurti, Bess ²⁹	MS Animal Science	UCD Breeding	1/85 - 1/87	Indonesia
Tulley, Druska	MS Repro Phys & An Sci	Montana	9/79 - 8/81	US
Ubirici, Jose	MS Reproduction	Utah/Reproduction	5/81 - 6/84	Brazil
Valdivia, Corinne ⁵	MS Agricultural Policy	Winrock/Economics	1/81 - 12/83	Peru
Villalta, Pedro	MS Reproduction	Utah/Reproduction	9/84 - 6/86	Peru
Vivanco, H. William	MS Reproduction	Cal Poly	9/81 - 6/83	Peru
Waghela, Suryakant	PhD Vet Med	Washington	9/84 - 3/88	Kenya
Woldehawariat, G.	PhD Animal Breeding	Texas A&M/Systems	9/79 - 9/81	Ethiopia
Wilcox, Brad ³³	MS Range Management	Texas Tech	1/80 - 12/82	US
Willingham, Timothy ³	MS Physiology Reproduction	Texas A&M/Breeding	9/82 - 9/86	US

FOOTNOTES

- 1 Attending Ohio State University; thesis research supported by Missouri
- 2 Attending Colorado State; partial support
- 3 Partial support
- 4 At Texas A&M, but overseas research supported by Utah and Texas Tech
- 5 Attended University of Missouri
- 6 Partially supported by LASPAU
- 7 Partially supported by FAO
- 8 Attended Purdue University
- 9 Attended University of Florida
- 10 Attended Purdue University
- 11 Attended Tuskegee Institute
- 12 Partially supported by USDA
- 13 Attended Stanford University; thesis research supported by University of Missouri
- 14 Attending Washington State University
- 15 Attended Louisiana State University
- 16 Attended Texas A&M University
- 17 Final support by Texas Tech
- 18 Attended University of California, Davis; thesis research supported by University of Missouri
- 19 Attended Cornell University
- 20 Attended University of Minnesota
- 21 Attended Montana State
- 22 CRSP student with direct support from IMBRAPA
- 23 Attending University of Reading, UK

- 24 Study site, Sumatra
- 25 Degree from Utah State, study site Morocco
- 26 Attending Oklahoma State University
- 27 Attended Tufts University
- 28 Supported by Minnesota/IAV Training Program
- 29 Attending UCD, support from World Bank fellowship.
- 30 Attended one year of training, S. Dakota State University
- 31 Attended University of California
- 32 Research conducted in Morocco
- 33 Research conducted in Peru
- 34 Research conducted in Brazil
- 35 Research conducted in Kenya
- 36 Research conducted in Indonesia

TRAINING OF OVERSEAS DEGREE CANDIDATES OVERSEAS WITH CRSP SUPPORT

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Aboulhouda, Youssef	2eme Animal Production National School of Ag., Meknes	North Carolina	10/84 - 7/85	Comoro Islands
Acata, S. Ortega	MS Range Science UNA, La Molina	Texas Tech	1/84 - 12/85	Peru
Aguirre, Lucrecia ¹	Licenciatura-BA University of Cuzco	Missouri	9/81 - 9/82	Peru
Ait Mhamd, Thami	3eme cycle Range Management Hassan II	Utah/Range	9/82 - 7/83	Morocco
Alcarraz, R. Roque	MS Range Science UNA, La Molina	Texas Tech	1/84 - 12/85	Peru
Alves, Jose V	MS Mgmt. Reproduction Santa Maria University	Utah/Repro	5/82 - 12/85	Brazil
Aries, C. J.	MS Range Science UNA, La Molina	Texas Tech	12/81 - 12/83	Peru
de Assis-Arruda, Francisco	MS Animal Husbandry Federal University of Ceara	North Carolina	1/80 - 12/83	Brazil
Barrera, Mercedes ²	BS Ag. Econ. Nat. Agrarian Univ. (La Molina)	MSU/Win. Econ.	10/84 - 9/85	Peru
Berrami, Ali	3eme cycle Animal Nutrition Hassan II	North Carolina	10/84 - 7/85	Morocco
Boumrifag, Mohamed	2eme Animal Production Nat. School of Ag., Meknes	North Carolina	10/84 - 7/85	Morocco

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Bueno S., Juan	MS Animal Breeding Nat. Agrarian University, Lima	Montana	7/81 - indefinite	Peru
Bueno, Luiz Juan	Ing. Agr. Nat. Agrarian University, Lima	Texas Tech	1/80 - 12/82	Peru
Cabrera, Prospero	MS Animal Breeding Nat. Agrarian University, Lima	Montana State	3/80 - 12/85	Peru
Caldas, Willi ¹	BA Nat. Agrarian University, Lima	Missouri	9/81 - 9/82	Peru
Chavez, Diana	MS - Animal Breeding Nat. Agrarian University, Lima	Montana State	7/81 - indefinite	Peru
Chergaoui, Abdelaziz	<u>3eme</u> cycle Range Management Hassan II	Utah/Range	9/80 - 3/82	Morocco
de Costa, Oderico	MS Marketing Federal University of Ceara	Winrock/Economics	11/80 - 2/82	Brazil
Coulibaly, Modibo	<u>2eme</u> Animal Production Nat. School of Ag., Meknes	North Carolina	10/84 - 7/85	Mali
Cruces, Martha	Ing. Agr. - Ag. Economics Nat. Agrarian University, Lima	Winrock/Economics	11/80 - 12/83	Peru
Cruz, Etelmira ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Cutipa, Flore ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Darfaoui, El Mostafa	<u>3eme</u> cycle Range Management Hassan II	Utah/Range	9/81 - 7/82	Morocco

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Diaz, Roxana	Ing. Agr. - Ag. Economics Nat. Agrarian University Lima	Winrock/Economics	11/80 - 9/82	Peru
Escalante, Victor ¹	Licenciatura University of Cuzco	Missouri	9/81 - 9/82	Peru
Fadili, Moussa El	3eme cycle Animal Nutrition Hassan II	North Carolina	10/83 - 7/84	Morocco
Fernandez, Maria	MS International Ag. Dev. University of Reading	Missouri	9/84 - 9/85	Peru
Gamarra, Jorge ⁴	Ing. Agr Nat. Agrarian University, Lima	Texas Tech	9/82 - 12/84	Peru
Garagay, Gladys	Ing. Agr. Nat. Agrarian University, Lima	Montana	3/82 - indefinite	Peru
Garcia, H.	MS Range Science U.N. Pedro Ruiz Gallo, Lambayeque	Texas Tech	1/82 - 12/82	Peru
Garcia, J. Chafloque	MS Range Science U.N. Pedro Ruiz Gallo, Lambayeque	Texas Tech	1/82 - 12/82	Peru
Gonzalez, Cristobal ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Gonzalez, E.	MS Range Science UNA, La Molina	Texas Tech	9/83 - 5/85	Peru
Grados, Alfredo	MS Animal Breeding Univ. Nacional Agraria, La Molina	Montana State	4/84 - indefinite	Peru
Gutierrez, Carlos	DVM San Marcos University, Lima	Texas Tech	1/80 - 5/83	Peru

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Haddani, Mohamed	2eme Animal Production National School of Ag., Meknes	North Carolina	10/84 - 7/85	Morocco
Hanafiah, Ahmed	B.S. Animal Science Bogor Agricultural Institute	North Carolina	9/84 - 9/87	Indonesia
Harkousse, Mohammed ²	3eme cycle Range Management Hassan II	Utah/Range	9/81 - 7/82	Morocco
El Honsali, Mohammed	3eme cycle Range Management Hassan II	Utah/Range	9/82 - 7/83	Morocco
Huayhua, Juan	MS Animal Breeding Univ. Nacional Agraria, La Molina	Montana	9/84 - indefinite	Peru
Huapaya, Gladys	MS - Animal Breeding Nat. Agrarian University, Lima	Montana	3/80 - 4/85	Peru
Igmoullan, Ahmed	3eme cycle Animal Nutrition Hassan II	North Carolina	10/81 - 7/82	Morocco
Khal, Mohamed	3eme cycle Animal Nutrition Hassan II	North Carolina	10/81 - 7/82	Morocco
Kitivo, Daniel	MS Grassland Science Reading University	CRSP Exchange Funds	8/82 - 12/83	Kenya
Koyandondri, Leon	2eme Agricultural Economics National School of Ag., Meknes	North Carolina	10/84 - 7/85	Central Africa
Larez, Ivan	Ing. Agr. Nat. Agrarian University, Lima	Texas Tech	6/80 - 12/82	Peru
Legdali, Nadia	2eme cycle Animal Production National School of Ag, Meknes	North Carolina	10/83 - 7/84	Morocco

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Llerena, Gorki	Licenciatura Econ. and Marketing Nat. Agrarian University, Lima	Winrock/Economics	11/80 - 1/82	Peru
Lopez, Manuel	MS Animal Breeding Univ. Nacional Agraria, La Molina	Montana	4/84 - indefinite	Brazil
Lopez, Victor	Ing. Agr Nat. Agrarian University, Lima	Montana	Completed 1981	Peru
Machuca, Juan	Ing. Agr. - Ag. Economics Nat. Agrarian University, Lima	Winrock/Economics	9/80 - 9/81	Peru
Maharzi, Latifa El	2eme Animal Production National School of Ag, Meknes	North Carolina	10/83 - 7/84	Mali
Mamani, Lolo ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Mara, Sandra	MS Animal Science	Utah/Range	1/84 - 6/85	Brazil
Mathuva, Moses	MS Grassland Science Reading University	Winrock/Management	8/82 - 12/83	Kenya
Mawi, Syahrir	MS Sociology Institut Pertanian, Bogor	Missouri	8/82 - 8/84	Indonesia
Millones, Luiz ²	Licenciatura National Agrarian Univ., Lima	Winrock/Economics	12/81 - 1/83	Peru
Moura Fe, Fatima	MS Animal Science Federal University of Ceara	Winrock/Economics	8/81 - 8/83	Brazil
Nascimento, Edna	MS Range Management Federal University of Ceara	Texas A&M/Breeding	9/81 - 9/85	Brazil
Ogada, Henry	MS Agricultural Economics Nairobi University	Winrock/Economics	11/84 - 9/85	Kenya

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Oumzai, Fatima	2eme cycle An. Production National School of Ag., Meknes	North Carolina	10/83 - 7/84	Morocco
Peralta, A.P. Silva	MS Range Science U.N. Pedro Ruiz Gallo, Lambayeque	Texas Tech	1/84 - 5/86	Peru
Priyanto, Dwi	BS Animal Science Bogor Agricultural Institute	North Carolina	9/84 - 9/87	Indonesia
Ponce, Gonzalez A.	MS Range Science UNTA, Puno	Texas Tech	1/84 - 5/86	Peru
Pulungan, Hamzah	PhD Animal Nutrition Bogor Agricultural Institute	North Carolina	1/85 - 1/88	Indonesia
Rahal, Boudour Ben	2eme Agricultural Economics National School of Ag., Meknes	North Carolina	10/84 - 7/85	Morocco
Rios, Marina	DVM San Marcos University, Lima	Texas Tech/ Colorado	6/80 - 6/81 2/82 - 7/82	Peru
Rodrigues, Aldomario	MS Animal Production Univ. F. Paraiba	TAMU/Management	12/84 - 5/85	Brazil
Rodriguez, Humberto	MS Animal Breeding Nat. Agrarian University, Lima	Montana	3/80 - 4/81	Peru
Rojas, Corina ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Rogue, Juan	MS Animal Breeding Nat. Agrarian University, Lima	Montana	7/81 - 12/85	Peru
Ruiton, Jesus	Ing. Agr. - Ag. Economics Nat. Agrarian University, Lima	Winrock/Economics	1/80 - 9/82	Peru

STUDENT	PROGRAM/INSTITUTION	SUPPORT	DATES	NATIVE COUNTRY
Sabrani, M. ²	PhD Agricultural Economics Gadja Mada Univ., Jogkarta	Winrock/Economics	6/82 - 12/84	Indonesia
Sahnoun, Abdelatif	<u>3eme</u> cycle Animal Nutrition Hassan II	North Carolina	10/81 - 7/82	Morocco
Semega, Djibril	<u>2eme</u> cycle Animal Production National School of Ag., Meknes	North Carolina	10/83 - 7/84	Morocco
Setiadi, M.	MS Animal Science IP: University, Bogor	UCD Breeding	4/81 - 3/83	Indonesia
Sitorus, Marudin	PhD Animal Nutrition Bogor Ag. Institute	North Carolina	9/83 - 9/86	Indonesia
Soto, Alberto	MS Animal Health San Marcos University, Lima	Colorado	4/82 - 8/82	Peru
Soto, L. Bueno	MS Range Science UNA, La Molina	Texas Tech	1/82 - 5/84	Peru
Soto, V.	MS Range Science U.N. Pedro Ruiz Gallo, Lambayeque	Texas Tech	1/82 - 12/82	Peru
Souza, Jose de	MS Marketing Federal University of Ceara	Winrock/Economics	9/80 - 2/82	Brazil
Suparyanto, Agus	MS Production Economics Institut Pertanian Bogor	Winrock/Economics, NCSU, USD & MSU	8/80 - 12/82	Indonesia
Urbano, J. Rueda	MS Range Science UNA, La Molina	Texas Tech	1/84 - 12/85	Peru
Vasquez, Nelly	Ing. Agr. Nat. Agrarian University, Lima	Texas Tech	6/80 - 8/83	Peru

STUDENT	PROGRAM/INSTITUTION	SUPPGRT	DATES	NATIVE COUNTRY
Valderi, Vierira da Silva	MS Production Systems Federal University of Ceara	Winrock/Economics	8/81 - 8/83	Brazil
Valer, Charo	MS Depart. of Econ. & Planning Nat. Agrarian University, Lima	Winrock/Econ	1/84 - 1/85	Peru
Vega, Pilar ²	BS Anthropology Univ. of San Agustin (Arequipa)	Missouri	8/83 - 7/84	Peru
Velarde, Ruben	Licenciatura Ag. Economics Nat. Agrarian University, Lima	Winrock/Economics	1/80 - 12/83	Peru
Villa, R. Velarde	MS Range Science UNTA, Puno	Texas Tech	1/84 - 5/86	Peru
Wanderley, A.M. Costa	MS Rural Economics Univ. F. Paraiba	Texas A & M	12/84 - 5/85	Brazil

¹ Support for thesis research only

² Partial support

SR-CRSP SPONSORED SHORTCOURSES

COURSE	SPONSORED BY	WHERE HELD	DATES
Sheep Production 23 participants	All Projects	Bogor, Indonesia	6-7/80 (2 weeks)
Reproduction 18 participants	Utah/Cal Poly	Sobral, Brazil	9/80 (2 weeks)
Management of Reproduction 26 participants	Utah/Cal Poly Reproduction	Lima, Peru	3/81 (5 days)
Forage-Vegetation Sampling 16 participants	Utah/Range	Sobral, Brazil	5/81 (2 days)
Veterinary Lab Techniques	Washington	Kabete, Kenya	6-7/81 (6 weeks)
Animal Breeding 65 participants	Montana	Lima, Peru	11/81 (5 days)
Training on Pathology & Immunology Lab 5 participants	Colorado	Lima, Peru	2/82 (2 weeks)
Diet Analysis Techniques 9 participants	Utah/Range	Sobral, Brazil	3/82 (2 days)
Animal Breeding & Systems 21 participants	TAMU/Breeding & Systems	Sobral, Brazil	5/82 (2 days)
Nutrition Part I: Nutrition Update for Sheep and Goats 20 participants	North Carolina	Sobral, Brazil	7/82 (5 days)
Nutrition Part II: Practical Training in Feed Analysis Procedures 10 participants	North Carolina	Sobral, Brazil	8/82 (5 days)
Management & Improvement of Natural Pastures 117 participants	Texas Tech	Lima, Peru	8/82 (4 days)
Range Shortcourse for Professional Agriculturalists in the Southern Sierra	Texas Tech	Puno, Peru	4/83

COURSE	SPONSORED BY	WHERE HELD	DATES
Socio-Economic Research Techniques for Livestock in Asia (T. Soedjana from Indonesia attended and DeBoer and Knipscheer served as lecturers.)	IDRC, ADC, Winrock	Bangkok, Thailand	4/13/83 - 5/18/83
Methods of Measuring Caatinga Vegetation 25 participants	Utah Range	Brazil	(3 days)
Techniques of Animal Diet Analysis 12 participants	Utah Range	Brazil	(2 days)

SR-CRSP SPONSORED INFORMAL TRAINING

Subject Matter	No. Participants	Trainer	Project	Location	Dates
Data Analysis with hand-held calculator	12 participants	Neil Thomas	Indonesian Projects	Bogor, Indonesia	March 82
Microbiological Laboratory Procedures	4 participants	Mary Sawyer	UCD Animal Health	Sobral, Brazil	1983
Animal Experimentation Procedures for Trainees	2 to 6 per year	Carlos Zometa	TAMU Management	Pendencia, Brazil	1983-85
Field Survey Techniques for Kenyan Enumerators	4 plus replacements	Mike Sands and others	Kenya Projects	Maseno, Kenya	1980-1985
Goat Milk Processing and Cheesemaking	Peace Corps volunteers & Vet. farm staff	Kathy Boor	Winrock Production Systems	Maseno, Kenya	Oct. 1982
Goat Management and Feed Production	10 farmers - (goat recipients)	Dan Brown & Sandra Russo	Winrock Prod. Systems	Maseno, Kenya	March 1983
Nutrition Laboratory Techniques	4 technicians	Tom Robb	NCSU Nutrition	Sobral, Brazil	5/81-12/83
Livestock Feed Production and Preservation	Small farmers	Moses Onim & co-workers	Winrock Prod. Systems	Maseno, Kenya	4/85
Sheep Management	Indonesian Staff	D.T. Torell	UCD Animal Genetics	Bogor, Indonesia	6-7/80
Sheep and Goat Mgt. and Record Keeping	3 professionals and other staff	Fremont Bell	UCD Animal Genetics	Western Java	7/82 - 7/83

Subject Matter	No. Participants	Trainer	Project	Location	Dates
Economic data design, collection, analysis and write up	4 professionals and other staff	H. Knipscheer & co-workers	Winrock Econ.	Bogor, Indonesia	1981 - 1984
Village Data Gathering	5 professionals from BPT	M. Sabrani & H. Knipscheer	Winrock Econ	Bogor, Indonesia	Feb-Mar 1983
Semen Processing and Artificial Insemination	Several Kenyans	E.A. Nelson	Cal Poly Repro.	Kabete, Kenya	
Animal Health Lab. Equipping and Teaching Techniques	Kenyan Staff	S. Schmidt & K. Farnsworth	WSU Animal Health	Kabete, Kenya	June-July 81
Animal Management and Data Collection	12-15 students per year	M. Carpio & B. Quijandria	Montana Animal Breeding	Peru	1981-1985
Training In Veterinary Laboratory Techniques	5-25 Peruvian veterinarians and animal health technicians	J. DeMartini & Colorado colleagues	Colorado Animal Health	Lima La Raya Sais Tupac Amaru	1981 1982 1982 1983

INDIVIDUAL TRAINING INCLUDING PARTIAL SUPPORT TO ATTEND PROFESSIONAL MEETINGS ^{*a}

Name	Training	Project	Dates
Subandriyo	Sheep and Goat Management and Record Keeping at UC Davis and UC Hopland Field Station	UCD Animal Genetics	Jan-Feb. 1981
M. Sabrani A. Muljadi	Third International Conference on Goat Production and Disease ^{*b} , Tucson, AR	Winrock Economics	Jan. 1982
M. Sabrani	First Asian-Australian Animal Production Congress, Kuala Lumpur	Winrock Economics	Sept. 1980
M. Sabrani	Second Asian-Australian Animal Production Congress, Manila, Philippines	Winrock Economics	Nov. 1982
M. Sabrani	IDRC Conference on "Livestock in Asia: Issues and Policies," Singapore	Winrock Economics	Feb. 1982
Uka Kusnadi	English Training Course ^{*c}	Winrock Economics	- - - - -
T. Soedjana	Technical writing in English ^{*c}	Winrock Economics	Jan. 1983
A. Djajanegara	Nutrition Laboratory Procedures (1 week at Cornell, 2 weeks at NCSU)	NCSU Nutrition	- - - - -
A. Carneiro	Trainee in Reproduction, Brazil	USU Reproduction	- - - - -

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^{*a}See also publication section for papers presented by SR-CRSP participants at meetings.

^{*b}Other attendees were supported by SR-CRSP projects

^{*c}Many other participants have been supported by SR-CRSP for improving their English but not reported as training.

Name	Training	Project	Dates
V. Alarcon Victor Lacssa Cesar Pinares H. Cardenas V. Alarcon Ada Ribas Plata Adelaid Prado	Trainees in Reproduction in Peru	USU Reproduction	- - - - -
W. Guimaraes	Research Techniques in Nutrition at CNPQ, Sobral	NCSU Nutrition	- - - - -
K. Otieno	Regional Training Workshop in Farming Systems Research CIMMYT in Zimbabwe	Winrock Production Systems	February 1984
121 D. Huaman	New approaches to isolation and characterization of bacterial toxins at CSU	CSU Animal Health	July 1980 (4 weeks)
E. Caletti	New research planning at CSU and Nat'l. Dis. Center, Ames Iowa in field of cell-associated virus isolation and cell culture	CSU Animal Health	1980
E. Ameghino	Ford Animal Veterinary Medicine Meetings and new methodology at UCD, WSU and CSU	CSU Animal Health	March/April 1983
W. Vivanco	Radioimmunoassay Techniques, International Atomic Energy Agency supported training in Peru and Vienna	Utah Reproduction	1983-1984
F. Villena R. Higaona	Tropical Forages Course at CATIE, Costa Rica (Kellogg Foundation sponsored)	Peru Goat Project	4 weeks

Name	Training	Project	Dates
T. Cordero M. Callacna	Goat Production in the Tropics (Kellogg Foundation and AID/ROCAP sponsored)	Peru Goat Project	- - - - -
A. Florez	Intn'l. Society for Range Mgt. Meetings at Calgary, Canada and Albuquerque, N. Mex.	Texas Tech Range Mgt.	1982-1983
R. Farfan	IV Intn'l Meeting on South American Camelids, Punta Arenas, Chile	Texas Tech Range Mgt.	Nov. 1981
T. Cordero B. Quijandria	Methodology of Livestock Systems Research (Sponsored by IDRC) Pucallpa, Peru	Peru Goat Project	Jan. 1982
T. Cordero B. Quijandria	Methodology of Livestock Systems Research (Sponsored by IDRC) CATIE, Costa Rica	Peru Goat Project	Feb. 1983