

## **Hamdy S. Oushy**

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### **Principal QUALIFICATIONS:**

Dr. Oushy is a College Associate Professor in the Department of Agricultural Economics and Agricultural Business, and Rangeland Management and Forage Production Systems Specialist with the Cooperative Extension Service. He is working on the Afghanistan Water and Technology Transfer Project (AWATT), and on the Iraq Agricultural Extension Revitalization Project (IAER). He received a BS in Agricultural Sciences from College of Agriculture, Cairo University, Egypt; a MS in Agronomy from Zagazik University, Egypt; a MS in Range Sciences from New Mexico State University with minor in Agronomy; and a PhD in Range Sciences with minors in Agronomy and in Experimental Statistics from New Mexico State University. His areas of expertise are: Rangeland Management, Forage Production and Alfalfa Marketing Systems in the Middle East, International Project Management and Training, and Middle East Agricultural Systems. He has over 28 years of research, teaching, extension, technology transfer and training in the Middle East, Africa and Egypt. His interests include: Advising and teaching both undergraduate and graduate students, and US-Middle East International Cooperation in Agriculture Development and Marketing. Oushy was an Associate Professor of Rangeland Management and Forage Production Systems at the Field Crops Research Institute, Agricultural Research Center in Egypt, before coming back to NMSU.

### **Education:**

- 1991-1994:** **Doctor of Philosophy** in Range Sciences, New Mexico State University, Las Cruces, New Mexico State. Dissertation title: Seedling Performance in Selected Fourwing Saltbush [*Atriplex canescens* (PURSH) NUTT.] Populations and Their F1 Hybrids Under Arid Land Conditions in New Mexico. Dissertation advisors: J.R. Barrow, R. D. Pieper, M. K. Wood, R.G. Cantrell, L. W. Murray. Major Field: Rangeland and Natural Resources Management with **Minor Fields** in Agronomy and Experimental Statistics, May, 1994.
- 1989-1991:** **Master of Science** in Range Sciences, New Mexico State University, Las Cruces, New Mexico with **Minor Field** in Agronomy, May, 1991.
- 1984-1987:** **Master of Science** in Agronomy from Agronomy Department College of Agriculture at Mushtohr, Zagazik University, Egypt. Thesis title: Studies on Production and Preservation of Fodder Beet. Thesis

advisors: S. Shafshak, A. Al-Dubabi, M. Radwan, S. A. Seif, August, 1987.

**1968-1972: Bachelor in Agriculture Sciences** from College of Agriculture, Cairo University, Gama St., Giza, Egypt, June, 1972.

**Language Proficiency:**

English:       fluent  
Arabic:        fluent (Native Language)

**EMPLOYMENT:**

**College Associate Professor**, Department of Agricultural Economics and Agricultural Business, Cooperative Extension Service, College of Agriculture, New Mexico State University. P.O. Box 30001, Las Cruces, NM 88003-8001; June, 2008 - Present.

**Affiliated Professor and Extension Specialist**, Department of Agricultural Economics and Agricultural Business, College of Agriculture, New Mexico State University; P.O. Box 30001, Las Cruces, NM 88003-8001, March, 2007 – May, 2008.

**Visitor Professor**, College of Agriculture and Home Economics, New Mexico State University; P.O. Box 30001, Las Cruces, NM 88003-8001, August 2006 – February, 2007.

**Associated Professor**, Forage Crops Research Department, Field Crops Research Institute Agricultural Research Center, 9 Gama St., Giza – Egypt; June, 2000 – July, 2006.

**Assistant Professor**, Forage Crops Research Department, Field Crops Research Institute Agricultural Research Center, 9 Gama St., Giza – Egypt; August, 1994 – May, 2000.

**Graduate Student**, Animal & Range Sciences Department, College of Agriculture & Home Economics at New Mexico State University, P.O. Box 30001, Las Cruces, NM 88003-8001; September, 1989 – May, 1994.

**Research Assistant**, Forage Crops Research Department, Field Crops Research Institute Agricultural Research Center, 9 Gama St., Giza – Egypt; March, 1982 – August, 1989.

**Agricultural Extension Agent**, Central Directorate of Agricultural Extension at Ministry of Agriculture and Water in Kingdom of Saudi Arabia, March, 1973 – January, 1982.

## **INTERNATIONAL PROJECT EXPERIENCES:**

- USAID-Funded “Afghanistan Water, Agriculture, and Technology Transfer Program (AWATT)” 2008 – 2011.
- USAID-Funded “Iraq Agricultural Extension Revitalization Project” 2007-2010
- Coordinated training project in cooperation with Missouri University for USDS-funded “Millennium Challenge Corporation Training Program on Beef Industry at NMSU for 8 participants from Namibia, Africa, on campus. It included teaching a class and training in the field; through June, 2008.
- Coordinated training project for USDA-funded “Cochran Fellowship Training Program on Agricultural Extension Methodologies” at NMSU for 6 Iraqi Extension Agents on campus. It included teaching a class and training in the field; through November, 2007.
- USAID-Funded “Egyptian Major Improvement Cereal Project, EMICP” (Egypt, 1980-1986 for \$52 million).
- USAID-Funded “National Resource Management Project, NARP” (Egypt, 1987-1992 for \$22 million).

## **TECHNICAL EXPERIENCES:**

- Natural resources management & policy reform
- Rangeland management
- Forage Production Systems
- Alfalfa Technology & Marketing Systems in Middle East & Africa
- Extension and Technology Transfer
- Wildlife Protection and Conservation
- International Project Management & Training
- Middle East Agricultural Systems
- CITES-Convention in Endangered Species

## **TEACHING INTEREST:**

- Introductory Range Management
- Range Improvement
- Principle of Range Ecology
- International Range & Livestock in Developing Countries
- Advanced Range Management
- Agricultural Extension Methodology in US and in the Middle East
- Project Management & Strategic Planning

## **PROFESSIONAL AND HONOR SOCIETIES:**

- Society for Range Management
- Phi Kappa Phi Honorary
- Rangeland Group (CIHAM / FAO Network)
- Game Ranger Association of Africa (South Africa)
- Egyptian Plant Breeding Society
- Egyptian Plant Pathology Society
- International Ranger Federation

## **Offices Held:**

**Deputy Director**, National Range & Forage Research Program, Agricultural Research Center, Field Crops Research Institute, Egypt, 1998 to 2001.

**Assistant Head**, CITES-Management Authority of Egypt for the “Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)”. Ministry of Agriculture and Land Reclamation, Egypt, 2000 to 2004.

**Coordinator**, Plant Scientific Committee, CITES-Management Authority of Egypt, “Convention on International Trade in Endangered Species of Wild Fauna and Flora”, 2000 to 2004.

**Consultant**, International Fund for Animal Welfare, 411 Main Street, Yarmouth Port, MA 02675-1843, USA, March, 2005 – August, 2006.

## **Major Research Efforts:**

- **Principal Investigator** of the “Developing Adapted Improved Alfalfa Cultivars under Desert Environmental Conditions Project”. Project was funded by the French Aid Governmental System. Project duration: 5 years, 2000 -2005; budget: 2.5 million LE.
- **Principal Investigator** of the “Mangrove Forest Habitat Assessment Supported by Remote Sensing along the Coastal Zone of the Red Sea in Egypt”, National Authority for Remote Sensing and Space Sciences; Soil, Agriculture and marine Division, Cairo - Egypt, Funded by MOA, August, 1998.
- **Researcher** in the EC-Funded “Natural resource management Project” in Egypt from 1998 – 2002 at the ARC-MOA, in collaboration with ICARDA.
- **Researcher** in the EC-Funded ‘Nile Valley and Red Sea Regional program, in Egypt from 1994 - 1998 at the ARC-MOA, in collaboration with ICARDA. It focused on Cereal, legume and forage improvement.

### **Scientific Visits and Training Courses:**

1. Short-term technical training visit to USA, through May to June 1986, on forage production and preservation as hay and silage at Brigham Young University, Utah State University and New Mexico State University.
2. Scientific visit to the USA to attend the annual meeting of the American Society of Rangeland Management in Washington D.C. from 9-16 January 1991.
3. Attending training course of “The Feeding Value of the Mediterranean Forage Resources on Small Ruminants” at the International Center for Agricultural Research in Dry Areas (ICARDA), Aleppo, Syria from 12-23 March 1995.
4. Attending the Expert Group of “The Expert Consultation for the Creation of a Cooperative Research Program on Sustainable Development of Mediterranean Arid and Semi-Arid Areas”, in association with CIHEAM and FAO. In Settat, Morocco from 14-17 April, 1996.
5. Attending the “Regional Training Workshop on Native and Exotic Fodder Shrubs in Arid and Semi-Arid Zones”, in cooperation with CIHEAM AND FAO. In Al-Hammamat, Tunisia; from 27 October-2 November, 1996.
6. Scientific Visit to the “International Center of Agricultural Research in the Dry Areas” (ICARDA), in order to follow up the breeding program of the following forage crops: vicia spp., lathyrus spp., and their rangeland program that coupled with field visits, through the period of 14-21 December, 1996, Aleppo-Syria.
7. Scientific visit to the Agricultural Research Center at JOKIOINEN and Helsinki University in Finland, to follow up the forage breeding program and forage production as well as rangeland management; during the period from 7-21 August, 1997.
8. Attending the training course on “Fodder Shrubs: Their Role in Mediterranean Arid and Semi-Arid Land Development and Environmental Conservation” at El-Rabat, Morocco in cooperation with CIHEAM and El-Hassan II Institute for Agriculture and Veterinary medicine, through the period from 28 September – 9 October, 1998.
9. Participated as an Egyptian Delegate at the eleventh meeting of the Conference of the Parties for the Convention on International Trade in Endangered Species of Wild Fauna and Flora, CITES (UNEP). In Gigiri, Kenya, through 10-20 April 2000.
10. Participated as a representative of Egypt in the 3rd World Congress International Ranger Federation 2000. In Berg-en-Dal, Kruger National Park, South Africa, from 11-17 September, 2000.

11. Participated as a Lecturer on the “Training Workshop in The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) for Management and Other Authorities. In State of Kuwait, 19-23, March 2005.

12. Participated as a Lecturer on the “Training for Trainers Workshop in The Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) for Management Authorities. In State of Kuwait, 11-16, March 2006.

### **Refereed Journal Articles:**

Seif, S. A., S. E. Shafshak, A. M. Rammah and H. S. Oushy. 1988. Effect of conditioning treatments on the quality characteristics of fodder beet silage. Ann. of Agric. Sci., Moshtohor. 26 (3): 1573-1592. Zagazig Univ., Benha, Egypt.

Seif, S. A., S. E. Shafshak, A. M. Rammah and H. S. Oushy. 1988. Differential response of fodder beet cultivars to potassium bisulfate as an antioxidant preservative agent for beet silage. Ann. Of Agric. Sci., Moshtohor. 26 (3): 1531-1552. Zagazig Univ., Benha, Egypt.

Shafshak, S. E., S. A. Seif, A. M. Rammah and H. S. Oushy. 1988. Effect of cultivar and fertilization on fodder beet silage. I. Silage characteristics. Ann. of Agric. Sci., Moshtohor. 26 (3) 1493-1510. Zagazig Univ., Benha, Egypt.

Shafshak, S. E., S. A. Seif, A. M. Rammah and H. S. Oushy. 1988. Effect of cultivar and fertilization of fodder beet silage. II. response to pre-ensiling chemical wilting treatment. Ann. of Agric. Sci., Moshtohor. 26 (3): 1513-1528. Zagazig Univ., Benha, Egypt.

Shafshak, S. E., S. A. Seif, A. M. Rammah and H. S. Oushy. 1988. Temporal changes in quality characteristics of stored fodder beet silage. Ann. of Agric., Moshtohor. 26 (3): 1555-1571. Zagazig Univ., Benha, Egypt.

Oushy, H. S., and J. R. Barrow. 1996. Effectiveness of hybridization for improving some characters of *Atriplex canescens*: Germination and survival performance. Proceedings of the Workshop on Native and Exotic Fodder Shrubs in Arid and Semi-arid Zones, 27 Oct – 2 Nov 1996, Hammamet, Tunisia.

Oushy, H. S., and J. R. Barrow. 1996. Seedling growth characteristics comparisons among 11 entries of fourwing saltbush [*Atriplex canescens* (PURSH) NUTT.] at greenhouse. Proceedings of the Workshop on Native and Exotic Fodder Shrubs in Arid and Semi-arid Zones, 27 Oct – 2 Nov 1996, Hammamet, Tunisia.

Sarhan G. M., H. S. Oushy and H. E. El-Selemy 1996. Evaluation of some new sorghum sudangrass hybrids for forage yield and quality under different environmental conditions in Egypt. Annals of Agric. Sci. Moshtohor. Vol. 34. (3): 789-798.

El-Nahrawy, M. A., A. Z. AbdEl-Halim, and H. S. Oushy. 1997. Productivity of fodder beet on sandy soil in Egypt. XVIII International Grassland Congress, June 8-19, 1977 Winnipeg, Manitoba, Saskatoon, Saskatchewan, Canada- ID No. 1340.

Omar, S. A., I. A. Ismail, and H. S. Oushy. 1977. Pathological and cultural factors influencing formation of forked root in Alfalfa. The Eighth Congress of Phytopathology, organized by the Egyptian Phytopathological Society, Cairo. P. 365-376.

Oushy H. S., G. M. Sarhan, H.E. El-Selmy, and E.M. Gaafar. 1997. Forage yield and quality of some exotic pearl millet hybrids under Egyptian conditions. Egypt. J. Appl. Sci., Vol. 12 (12): 122-141.

Radwan, M. S., H. S. Oushy, M.E. Mousa and S.S Abo-Feteih 1997. Potential seed yield of sterile F1 and 3-way crosses on forage sorghum-sudan hybrid in Egypt. VIII International Grassland Congress, June 8-19, 1977. Winnipeg, Manitoba, Saskatoon, Saskatchewan, Canada. ID No. 476, (25): 11-12.

Abdelhalim, A. Z., H. S. Oushy, G.M. Sarhan, M.A. El-Nahrawy, M.E. Haggag, and G.S. Mekhailel. 1998. Genotypic potential of some Egyptian clover populations on forage yield and quality under different environmental conditions. Egypt. J. Appl. Sci., Vol 13 (3): 494-508.

Mahmoud, T. A., G. M El-Shebiny, and H. S. Oushy. 1999. Biofertilization of forage sorghum in calcareous soil. Annals of Agric. Sci. Moshtohor, Vol. 37 (4):2243-2257.

Oushy, H. S. and I. A. Ismail 1999. Breeding for root rot disease resistance as influenced by saponin contents in Egyptian clover (*Trifolium alexandrinum* L.). Egypt. J. Appl. Sci., Vol. 14 (4): 27-39.

Oushy H. S., O. Niemelainen, M. A. El-Nahrawy, and I. A. Hanna. 1999. Seasonal variation in performance of Alfalfa genotypes under sandy soil condition. I. Yield and Yield components. Proceed. First plant. Breed. Conf., December 4, 1999 (Giza). Egypt. J. Plant Breed. Vol (3): 281-296.

Oushy H. S., O. Niemelainen, M. A. El-Nahrawy and I. A. Hanna. 1999. Seasonal variation in performance of Alfalfa genotypes under sandy soil condition. II. Quality and related traits. Proceed. First plant. Breed. Conf., December 4, 1999 (Giza). Egypt. J. Plant Breed. Vol (3): 297-312.

Oushy, H. S. and I. A. Ismail. 2000. Evaluation of some lines of lathyrus cicera (CHICKLING) for forage and rust tolerance under sandy soil conditions. Egypt. J. Appl. Sci., Vol. 15 (10): 64-68.

Oushy, H. S., M. M. ABDEL-GALIL and M. A. El-Nahrawy. 2006. Performance of five local and exotic alfalfa cultivars under different environmental conditions in Egypt. ARC Research Journal, 2006.