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## Agricultural Experiment Station News May 1977

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THE AGRICULTURAL EXPERIMENT STATION  
INSTITUTE OF AGRICULTURE  
AND NATURAL RESOURCES  
UNIVERSITY OF NEBRASKA-LINCOLN  
H. W. OTTOSON, DIRECTOR

# Agricultural Experiment Station



Vol. 9, No. 11, May 1977

## FROM THE DIRECTOR'S DESK

Marvel Baker--A great man. The less youthful of us Station staff members, including this writer, noted the passing of Dr. Marvel L. Baker on April 20, 1977 with a sense of personal loss. Station staff members of more recent vintage will be interested to know that Dr. Baker served the Experiment Station as its Associate Director from 1947 to 1955.

I recall with great clarity my first contacts with Marvel Baker, since he was serving as Associate Director when I came to Nebraska. He was crisp and to the point, not wasting words. He was critical and businesslike, but underneath there was deep dedication to agricultural research, and a very warm heart. I still recall the appreciation which I felt when he helped me solve a couple of what I thought at the time were very complex problems in which I found myself involved because of inexperience and a measure of thoughtlessness.

Marvel Baker was a great and good man!

Publication of Research Results. I venture to comment on this topic only with some trepidation; the topic of publications is not without emotional content! However, I feel moved to comment on the subject for two reasons: 1) the staff evaluation cycle through which we pass every year reemphasizes the importance of publications; 2) newer staff members ask us occasionally as to the Station attitude and posture concerning publications.

We are fully aware of the complexities involved in evaluating the quality of publications; distinguishing quality differences becomes ultimately a highly subjective matter. As you know, we do estimate a publication index for each staff member annually, based on his activities report. We also compute departmental averages of these indices. These indices are quantitative, but are based on different weights for various broad qualitative categories of publications.

When people ask us whether we consider only publications in evaluating a Station staff member, the answer is obviously no. Station staff members do many worthwhile and important things besides writing research reports. On the other hand, with only a few exceptions, the job assignments of professional members of the Station staff involve research activity. I do not think that it can be argued that research has been completed until the results have been published; indeed, publications are in fact the only effective means by which a research person can convey his important findings to his colleagues and to information users. Thus, over the long run, the success of a research person's career necessarily rests on his achievements in the form of publications, variety releases, inventions, or equivalent creative achievements. In the vernacular of an important rental car agency, let us all try harder!

Howard W. Ottoson

## PERSONNEL ACTIONS

Francis, Charles - Assoc. Professor, Agronomy - Appointment  
 Hill, Robert - Assoc. Professor, Biochemistry - Special appt., Afghanistan contract  
 Lavy, Terry L. - Professor, Agronomy - Resignation  
 Mebus, Charles A. - Professor, Veterinary Science - Resignation  
 Richer, LeRoy - Asst. Professor, Biochemistry (MARC) - Courtesy appointment  
 Rush, Ivan G. - Asst. Professor, Animal Science (PH Sta) - Resignation

## GRANTS AND CONTRACTS

Ball, H. J., Entomology - Union Carbide Corp.	750
Burnside, O. C., Agronomy - (2) - CIBA-GEIGY Corp. and Monsanto	3,750
Fenster, C. R., Agronomy (PH Sta) - Shell Chemical Co.	500
Grabowski, P. H., Agronomy (NP Sta) - Garst & Thomas Hybrid Corn Co.	1,150
Hagen, A. F., Entomology (PH Sta) - (2) - E I DuPont and Union Carbide Corp.	1,250
Hergert, G. W., Agronomy (NP Sta) - (2) - Wilson & Meyer Co. & Stauffer Chem.	1,500
Hudson, D. B., Vet. Science (NP Sta) - Norden Lab	1,241
Kindler, S. D., Entomology - Union Carbide Corp.	500
Martin, A. R., Agronomy - Monsanto Co.	500
Mayo, Z. B., Entomology - (2) - Monsanto Co. and Union Carbide Corp.	4,750
Moomaw, R. S., Agronomy (NE Sta) - (2) - Rohm & Hass Co. and Monsanto Co.	1,250
Nielsen, M. K., Animal Science - American-International Charolais Assn.	800
Peters, L. L. Entomology (SC sta) - (2) - CIBA-GEIGY Corp and Union Carbide	750
Peterson, G. A. & D. H. Sander, Agronomy - Phillips Petroleum Co.	5,000
Roeth, F. W., Agronomy (SC Sta) - Monsanto Co.	500
Shearman, R. C., Horticulture - (2) - OMC-Lincoln and Turfgrass Council	1,550
Van Etten, J. L., Plant Path - DHEW, National Institutes of Health	19,774
Vidaver, A. K., Plant Path - DHEW, National Institutes of Health	24,625
Ward, J. K., Animal Science - IMC Chemical Group	1,000
Wicks, G. A., Agronomy (NP Sta) - (3) - Shell Oil, Monsanto, & Chevron Chemical	2,750
Wiese, R. A. & R. C. Sorenson - Agronomy - Intl. Minerals & Chemical Corp.	15,000
Wilson, R. G. Jr., Agronomy (PH Sta) - Four Miscellaneous Donors	1,850

## GENERAL NOTES

1. The Nebraska Station has received two competitive research grants in the 1977 awards by CSRS in which there were some 30 grants nationally. Except for Minnesota which received four the Nebraska Station faired very well among 56 stations.
2. Sahs Sez: Rains have come, temperatures were above normal in March and April, and planting is on schedule. Richard Mills will be Acting Supervisor, Field Laboratory, while I am on a temporary assignment in Afghanistan during June and early July.
3. Director Ottoson has been appointed to the Board of Directors of the Farm Foundation (Chicago) and as a member of a national Agricultural Research Policy Advisory Committee. These are both very prestigious assignments. Congratulations, Howard.
4. Dr. Khem Shahani has been honored by the Nebraska Chapter of Sigma Xi as the Outstanding Scientist of the Year. Congratulations, Khem.
5. Field Day Dates:
  - June 24 - High Plains Agr'l Lab, Sidney
  - June 28 - VIP Tour - Northeast Station
  - July 28 - Tractor Power and Safety Day - Field Laboratory
  - Aug. 3 - Sandhills Agr'l Lab, Tryon
  - Aug. 4 - Panhandle Station, Scottsbluff
  - Aug. 17 - South Central Station
  - Aug. 30 - Northeast Station

R. W. Kleis

NEBRASKA AGRICULTURAL EXPERIMENT STATION PUBLICATIONS - April 1977

Journal Articles (contact authors for more information)

5299. CPSTA = -N or Why Poor Management Costs You Money. Gary L. Goranson and C. B. Gilbertson. Confinement Feeding Magazine.
5300. Weed Control in Reduced Tillage Corn Planting Systems. R. S. Moomaw and A. R. Martin. Agronomy Journal.
5301. Possible Energy Savings in Irrigation. James R. Gilley and Darrell G. Watts. Journal of the Irrigation and Drainage Division ASCE.
5302. Time-Domain Measurements to Determine Dielectric Properties of Agricultural Products. B. P. Kwok, S. O. Nelson and E. Bahar. IEEE Transactions on Instrumentation and Measurement.
5303. Blood Lipid Levels of Adult Men on Vitamin D Supplemented and Unsupplemented Diets. K. A. V. Retzlaff, C. Kies and H. M. Fox. Journal of Food Science.
5304. In Vitro Studies of Dried Alfalfa and Complimentary Effects of Dehydrated Alfalfa and Urea in Ruminant Rations. Vernon Krause and Terry Klopfenstein. Journal of Animal Science.
5305. Uterine Blood Flow and Uterine Nutrient Uptake During Late Gestation in Ewes with Different Number of Fetuses. R. K. Christenson and R. L. Prior. Journal of Animal Science.
5306. Characterization and Variation of Xanthomonas and Corynebacterium Incited Diseases of Beans (Phaseolus Vulgaris L.). M. L. Schuster and D. P. Coyne. Phytopathology.
5307. A Comparison of Traditional Machinery Budgeting with the "Real World" as Represented by Capital Budgeting. Myles J. Watts and Glenn A. Helmers. Western Agricultural Economics Journal.
5308. Response of Seeds of Some Woody Plants to Electrical Treatment. S. O. Nelson, R. W. Bovey and L. E. Stetson. Weed Science.
5309. Rotaviruses, Norwalk, and Norwalk-like Viruses: Experimental Animals and "In Vitro" Systems. A. Z. Kapikian, R. G. Wyatt, A. R. Kalica, R. M. Chanock and C. A. Mebus. Proc. International Symposium on Experimental Animals and "in vitro" Systems in Medical Microbiology.
5310. Effects of Stable Flies on Weight Gains and Feed Efficiency of Calves on Growing or Finishing Rations. J. B. Campbell, J. E. Wright, R. G. White, R. Crookshank and D. C. Clanton. Journal of Economic Entomology, Section D: Medical and Vet Entomology.
5311. Influence of Insecticides and Corn Tillage Systems on Larval Control of Phyllophaga anxia. R. L. Rivers, K. S. Pike and Z. B. Mayo. Journal of Economic Entomology, Section F.

Journal Abstracts (contact authors for more information)

- 77-858. Effects of Different Processes for Reducing the Ash Content of Whey Protein Concentrates. B. N. Mathur and K. M. Shahani. Proceedings of the American Dairy Science Association Annual Meeting.
- 77-859. Effect of Enzymatic Hydrolysis on the Biodegradability of Dairy Effluents. P. J. Bailey, K. M. Shahani and A. Kilara. Proceedings of the Institute of Food Technologists Annual Meeting.
- 77-860. Preparation and Properties of Immobilized Papain and Lipase. A. Kilara, Fred W. Wagner and K. M. Shahani. Proceedings of the American Dairy Science Association Annual Meeting.
- 77-861. Utilization of Whey for the Manufacture of Ricotta Cheese. B. N. Mathur and K. M. Shahani. Proceedings of the American Dairy Science Association Annual Meeting.
- 77-862. Constraints to Improvement of Rangeland and Livestock in Morocco. J. Stubbendieck. First International Rangeland Congress.
- 77-863. Ram and Ewe Effects on Conception Losses in Out-of-Season Synchronized Sheep. D. D. Lunstra and R. K. Christenson. Journal of Animal Science.
- 77-864. Effect of Methallibure on Estrous Response of Anestrous Gilts Reared in Confinement. R. K. Christenson and J. J. Ford. Journal of Animal Science.
- 77-865. Growth and First Lactation Performance of Holsteins Raised on a Restricted Early Weaning Program. F. G. Owen and L. L. Larson.
- 77-866. Regression of Carcass Components on Carcass Weight and Fat Trim Percentage in Moderate and Large Biological Types. Robert M. Koch. American Society of Animal Science.
- 77-867. Effect of Maturity at Harvest and a Preservative on the Value of Corn Silage for Lactation. F. G. Owen.
- 77-868. Effect of Monensin on the Performance of Gestating Cows and Heifers. M. A. Stauffer and J. K. Ward.
- 77-869. Gastrointestinal Parasites in Beef Cows. J. K. Ward, D. L. Ferguson and A. M. Parkhurst.
- 77-870. Performance of Beef Cows Grazing Corn and Grain Sorghum Residues. M. A. Stauffer, J. Schmitz and J. K. Ward.
- 77-871. Progestogen Implants, GnRH and PGF<sub>2</sub> for Estrous Cycle Control in Cattle. John L. Lesmeister and Earl F. Ellington. Journal of Animal Science (Western Section).
- 77-872. Effect of Complexing SBM with Sodium Bentonite on N Utilization in Sheep and Cattle. R. A. Britton, T. J. Klopfenstein and L. Petersen. Journal of Animal Science.