Current Literature of Range Management

This section has the objective of alerting SRM members and other readers of *Rangelands* on the availability of new, useful literature being published on applied range management. Your recommendations on making this bibliography more useful are requested. Also, the compilers request readers to suggest literature items—and preferably also contribute individual copies—for including in this section and subsequent issues.

A Bibliography of Literature Related to Grazing Systems; by Christopher D. Allison and M. Karl Wood; 1981; N. Mex. Agric. Ext. Serv., Range Impr. Task Force Rep. 10; 58 p. (Coop. Ext. Serv., N. Mex. State Univ., Las Cruces, N. Mex. 88003) A compilation of references dealing with facets of grazing management systems, such as stocking strategies, rotation schemes, plant physiology, watershed, and animal production studies; includes U.S. and foreign publications; not annotated.

A Comparison of Techniques for Interseeding Native Mixed Grass Prairie in Western North Dakota; by Paul E. Nyren, Harold Goetz, and Dean E. Williams; 1981; N. Dak. Farm Res. 39(1):17-21. (Agric. Expt. Sta., N. Dak. State Univ., Fargo, No. Dak. 58105) A study to evaluate chemical and mechanical sod control for interseeding grasses into native mixed grass prairie.

Contribution of Mixtures of Three Chaparral Shrubs to the Protein and Energy Requirements of Spanish Goats; by Ahmed E. Sidahmed, James G. Morris, Ling J. Koong, and Steven R. Radosevich; J. Anim. Sci. 53(5):1391-1400. (Dept. of Animal Science, Univ. Calif., Davis 95616) A study of the nutritive value of simulated browse intake and the comparison of indicator and in vitro techniques with the in vivo technique for predicting digestibility.

Establishment of Seeded Grasslands for Wildlife Habitat in the Prairie Pothole Region; by H.F. Duebbert, E.T. Jacobson, K.F. Higgins, and E.B. Podoll; 1981; USDI, Fish & Wildl. Serv. Spec. Sci. Rep.-Wildl. 234; 21 p. (Free; Publications Unit, Fish & Wildl. Serv., Washington, D.C. 20240). Describes techniques for establishment of seeded grasslands on cultivated soils to provide wildlife with habitat within glaciated prairie pothole regions in the north central U.S.

Guidelines for Uniform Beef Improvement Programs; by Dixon D. Hubbard; 1981 (Rev.); USDA Program Aid 1020; 76 p. (USDA, Extension Service, Room 5525-South Bldg., Washington, D.C. 20250) Outlines procedures for measuring and recording beef cattle performance data while achieving greater uniformity of terminology and methods of measuring performance traits.

Habitat Management Guides for the American Pronghorn Antelope; by Jim Yoakum; 1980; USDI, Bur. Land Mgt. Tech. Note 347; 77 p. (DSC, Federal Center Bldg. 50, Denver, Colo. 80225) Summarizes the life history, ecology, habitat requirements, livestock relationships, and vegetation manipulation of the sagebrush grassland steppes for pronghorn antelope.

Height Replacement of Selected Woody Plants Following Burning or Shredding; by W.T. Hamilton, L.M. Kitchen, and C.J. Scifres; 1981; Texas Agric. Expt. Sta. Bul. 1361; 8 p. (Dept. of Range Science, Texas A&M Univ., College Station, Texas 77843) Compared burning and shredding for woody plant suppression and application intervals required to be effective.

Interior West Watershed Management: Proceedings of a Symposium Held April 8, 9, and 10, 1980, Spokane, Washington; edited by David M. Baumgartner; 1981; Cooperative Extension, Washington State Univ., Pullman, Wash.; 288 p. (Copies can be purchased from Cooperative Extension, 323 Ag. Sciences, Washington State Univ., Pullman, Wash. 99164) Includes papers on background and techniques of watershed management in the interior of western U.S.

A Linear Programming Model for Cattle Range Management; by W.H. Weitkamp, W.J. Clawson, D.M. Center, and W.A. Williams; 1980; Univ. Calif., Div. Agric. Sci. Bul. 1900; 17 p. (Cooperative Extension, Univ. Calif., Berkeley, Cal. 94720) Provides a model for making management decisions in range cattle operations on California annual range ranches.

A Manual for Pheasant Habitat Management on Private Lands in Utah; by D.W. Olsen and Jon P. Leatham; 1980; Utah Div. Wildl. Resources Pub. 80-4; 33 p. (Utah Div. of Wildl. Resources, Salt Lake City, Utah) A comprehensive manual including sections on seasonal habitat requirements, detrimental land uses and alternatives, habitat management and improvement guidelines, and individual farm habitat management planning.

Mathematical Hypothesis for Herbage Production Potential on Pinyon-Juniper Areas; by Warren P. Clary and Chester E. Jensen; 1981; USDA, For. Serv. Res. Paper INT-279; 8 p. (USDA, Intermountain For. & Range Expt. Sta., Ogden, Utah 84401) A model considering natural site factors for predicting herbage production on sites being considered for conversion to grassland.

Montana Range Plants: Common and Scientific Names; by Carl Wambolt; 1981; Mon. Agric. Ext. Bul. 355; 27 p. (Cooperative Extension Serv., Mon. State Univ., Bozeman, Mon. 59717) Lists the currently most acceptable nomenclature and information relating to plant longevity, origin, season of growth, and grazing response to cattle of the principal Montana range plants.

Mountain Meadow Management: 12 Years of Variety, Fertilization, Irrigation, and Renovation Research; by R.H. Hart, H.R. Haise, D.D. Walker, and R.D. Lewis; 1980; USDA ARR-W-16; 29 p. (USDA, Agric. Res. Serv., High Plains Grasslands Res. Sta., 8408 Hildreth Road, Cheyenne, Wyo. 82001) A summary of a series of experiments in Wyoming mountain meadows carried out between 1956 and 1968 with application recommendations.

Compiled by John F. Vallentine (Professor of Range Science), Jule Durfee, Ronald Rodriguez, and Marlon Sheridan (Students in Range Literature Seminar), Brigham Young University, Provo, Utah 84602.

Nutritional Value of Range Plants in the Edwards Plateau Region of Texas; by J.E. Huston, B.S. Rector, L.B. Merrill, and B.S. Engdahl; 1981; Texas Agric. Expt. Sta. Bul. 1357; 16 p. (Agric. Expt. Sta., Texas A&M Univ., College Station, Tex. 77843) Includes the effects of season and climatic conditions on the nutritive value of Edwards Plateau plants and plant parts and relates this to dietary selection by the various grazing animal species.

Organization, Costs, and Returns of Cattle Ranches in Southwestern New Mexico, 1979; by James R. Gray, Michael L. Jones, and John M. Fowler; 1981; N. Mex. Agric. Expt. Sta. Bul. 684; 44 p. (Agric. Expt. Sta., N. Mex. State Univ., Las Cruces, N. Mex. 88003) A survey and interpretation of ranch management practices in 1979 with ranch budget projections.

The Pronghorn Antelope in Alberta; by George J. Mitchell; 1980; Univ. of Sask., Regina, Sask.; 165 p. (Dept. of Biology, Univ. of Sask., Regina, Sask. S4S 0A2) Emphasizes the status, biology, ecology, behaviour, population dynamics, and management of the pronghorn antelope in Alberta.

Research and Education Opportunities in Livestock Grazing; by Don D. Dwyer; 1981; J. Anim. Sci. 52(3):650-654. (Range Science Dept., Utah State Univ., Logan, Utah 84322) Concentrates on the great need for expanded research and education programs on grazing management and range livestock production and summarizes the new programs and priorities this will require.

Response of Lactating Ewes to Snow as a Source of Water; by A.A. Degen and B.A. Young; 1981; Can. J. Anim. Sci. 61(1):73-79. (Dept. of Anim. Sci., Univ. of Alberta, Edmonton, Alta. T6G 2E3) Lactating ewes relying on snow as a source of water reduced their total water intake by about 35%, but this did not significantly affect their milk yield or total body water or lamb gains.

Sage Grouse Management in Idaho; by Robert E. Autenrieth; 1981; Idaho Dept. Fish & Game Bul. 9; 238 p. (Idaho Dept. Fish & Game, Boise, Idaho) A comprehensive manual on sage grouse management including life history, habitat requirements, diseases, predation, harvest, habitat utilization, and management procedures and plans.

SEA-AR Range Research Assessment: Western United States; by Carlton H. Herbel, Phillip L. Sims, William A. Laycock, Russell J. Lorenz, Raymond A. Evans, and Kenneth G. Renard; 1981; USDA, Sci. & Educ. Admin., Washington, D.C.; var. paged. (USDA, Agric. Res. Serv., Washington, D.C. 20250) An assessment of current problems in the management of rangelands, the status of range research, range research needs, and a strategy for future range research.

Using Short-Term Calf Removal and Flushing to Improve Pregnancy Rate; by K.J. Nix, Spencer Roberts, and J.N. Wiltbank; 1981; Texas Agric. Expt. Sta. Prog. Rep. 3780; 2 p. (Agric. Expt. Sta., Texas A&M Univ., College Station, Texas 77843) A report of several flushing and calf removal trials in southern Texas to determine their effects on improving pregnancy rate.

Vegetative Rehabilitation and Equipment Workshop, 35th Annual Report, Tulsa, Oklahoma, February 8 & 9, 1981; T.V. Russell (Chm.); USDA, For. Serv., Equipment Dev. Center, Missoula, Mon.; 84 p. (USDA, For. Serv. Equip. Dev. Center, Missoula, Mon. 59801) The proceedings of an annual workshop on improving rangelands and the development and use of range equipment.

Wetland Vegetation, Environmental Factors, and Their Interaction in Strip Mine Ponds, Stockdams, and Natural Wetlands; by Richard A. Olson; 1981; USDA, For. Serv. Gen. Tech. Rep. RM-85; 19 p. (USDA, Rocky Mtn. For. & Range Expt. Sta., 240 W. Prospect St Fort Collins, Colo. 80526) A synthesis of factors that determine wetland plant community composition and resulting wildlife habitat quality and their interrelationships.

Wildlife Habitats in Managed Rangelands—The Great Basin of Southeastern Oregon: Plant Communities and Their Importance to Wildlife; by J. Edward Dealy, Donavin A. Leckenby, and Diane M. Concannon; 1981; USDA, For. Serv. Gen. Tech. Rep. PNW-120; 66 p. (USDA, Pacific Northwest For. & Range Expt. Sta., P.O. Box 3141, Portland, Ore. 97208) Describes and provides a field key to plant communities and relates their plant composition, vertical and horizontal structure, and seasonal availability of forage to wildlife habitats.

Wildlife Science: Gaining Reliable Knowledge; H. Charles Romesburg; 1981; J. Wildl. Mgt. 45(2):293-313. (Dept. For. & Outdoor Recr., Utah State Univ., Logan, Utah 84322) Challenges the reliability of ideas and facts used in wildlife and related resources management, points out the misinformation and confusion often gained from computer simulation models, and suggests the use of improved techniques for measuring reliability of information.

Book Review

Samuel H. Lamb of Santa Fe, New Mexico, author of *Woody Plants of the Southwest,* has come out with another plant book. This one, *Native Trees and Shrubs of the Hawaiian Islands,* gives us a definitive study of the trees and shrubs of our 50th state. It is written in easy to understand language with lots of keys, Latin and common names, and beautiful photographs. Woven into his narrative are the charming folk stories about the plants. He also tells of their uses in the changing world of the Pacific Islands.

It will make an excellent reference for anyone interested in the trees and shrubs of the Hawaiian Islands. It was published in September 1981 by the Sunstone Press, Box 2321, Santa Fe, New Mexico 87501. Size is 8½ inches by 11 with 160 pages and sells for $14.95, strong paper back.—*Editor*