

Range Management Theses 1968-1975

Compiled and Edited by

REX D. PIEPER

New Mexico State University, Las Cruces

continuation

SUL ROSS STATE UNIVERSITY

- Adams, David W. 1970.** A study of the possibilities of treating creosotebush with NaOH to make a good livestock feed.
- Bryant, H. Harold, Jr. 1971.** Effects of burning on semidesert shrubs and grasses with special emphasis on whitebush (*Aloysia gratissima*), Brewster County, Texas.
- Griffin, James K. 1972.** Monthly nutritive values of certain range grasses on six sites in the Trans-Pecos Region of Texas.
- Hawley, Jimmy L. 1971.** A study of the mineral content of certain range sites and key species of grasses in the Stockton Plateau Area.
- Johnson, William M. 1973.** Nutritive values of winter range grasses on three sites in a limestone area of Pecos County.
- Love, George W. 1972.** A periodical analysis of the mineral content of grasses by range site in the Sierra Diablo Mountain Area.
- Murphey, James M. 1970.** An evaluation of the tree injector as a method of applying undiluted 2,4,5-T for a control of *Juniperus ashei* and *Celtis reticulata* in the Trans-Pecos Area.
- Nance, Samuel O., Jr. 1973.** A vegetative survey of a specific mule deer-cattle range in Pecos County, Texas.
- Phillips, Jerry L. 1974.** The annual behavioral cycle of desert mule deer (*Odocoileus hemionus crookii*) in relation to vegetative use.
- Vasquez, Mauricio. 1969.** The use of NH₃ as a replacement for NaOH in treating creosotebush and the palatability of NH₃ treated creosotebush for use in sheep rations.
- Williams, Robert M. 1971.** A comparison of the consumption of supplemental minerals fed *ad libitum* with the mineral content of selected plants grazed by range bulls.

TEXAS A&I UNIVERSITY

- Alexander, Louis. 1970.** Frost resistance in geographically diverse population samples of Texas mesquite.
- Barnes, Diana. 1971.** Anatomy of a spoil island.
- de la Pena, Tony. 1969.** The influence of soil on the growth responses of "running" and "upright" mesquite seedlings.
- Everitt, James H. 1972.** Spring food habits of white-tailed deer (*Odocoileus virginianus* Bod.) on the Zachry Ranch in South Texas.
- Green, Mary T. 1970.** Inflection of *Opuntia lindheimeri* by a *Fusarium* species.
- Horejsi, Ronald Gilbert. 1973.** Influence of brushlands on white-tailed deer diets in north-central Texas.
- Kattner, Kenneth. 1973.** Secondary successional vegetation on Padre Island National Seashore.
- Kelly, Jack A. 1970.** Food habits of four exotic big-game animals on a Texas "hill country" ranch.
- Le Clair, Jack J. 1974.** A survey of the bomeliad population of the cloud forest of Rancho del Cielo, Gomez Farias region of Tamaulipas, Mexico.
- Mayeux, Herman S., Jr. 1973.** Chemical control of goldenweed (*Isocoma cornopifolia* (Gray) Greene).
- McFarland, W. H. 1973.** Soil properties of four range sites on Padre Island National Seashore.
- Mutz, James L. 1974.** The effects of fertilization, clipping frequency, and irrigation on dry matter production and digestible protein content of four grasses used for pasture and range seeding in south Texas.

- Welch, Richard Barry. 1968.** An investigation of factors that may affect the eastern distribution of mesquite (*Prosopis grandulosa* var. *grandulosa*).
- Yunk, Robert. 1969.** Phenology of mesquite at three diverse habitat sites in Texas.

TEXAS TECH UNIVERSITY

- Balduzzi, Richard Alan. 1969.** The use of Tordon 212 and Tordon 225 for control of *Juniperus pinchoti* in Texas.
- Baker, Roger Lynn. 1972.** Use of fertilizer to increase vigor of sea oats and bitter panicum.
- Beck, Danny Lee. 1974.** Enhanced control of mesquite with NAA following shredding.
- Bodine, Michael Charles. 1973.** The impact of the termite *Gnathamitermes tubiformans* on rangeland herbage dynamics.
- Britton, Carlton Moss. 1970.** Correlation of weather and other variables to mesquite damage by fire.
- Brown, Jimmy W. 1968.** A comparison of vegetation and soils of Flat Top Mountain relict area with an adjacent grazed area in the southern high plains.
- Brumley, Conrad S. 1974.** Influence of soil temperature on Niacin concentration in mesquite.
- Bunting, Stephen Charles. 1974.** Ignition capabilities of non-flaming fire-brands.
- Busby, Frank Elton, Jr. 1970.** Distribution and spread of Phreatophytes on the Brazos River flood plain.
- Chambers, Rodney C. 1971.** Early winter chemical control of bitterweed.
- *Crawford, John Author. 1974.** The effects of land use on lesser prairie chicken population in West Texas.
- Darr, Gene Wallace. 1971.** White-tailed deer habitat in the Texas rolling plains.
- Dearing, Donald Wayne. 1972.** Effects of selected herbicides and fertilization on a sand shinnery oak community.
- De Leon Garcia, Ricardo C. 1969.** Forage yields and phenology of cool season grasses on the Southern plains.
- Delnicki, Donald Edward. 1973.** Renesting, incubation behavior, and compound clutches on the black-bellied tree duck in southern Texas.
- Fagan, Richard Ersel. 1972.** Influence of nitrogen on yield, carbohydrate reserve and protein content of buffalograss (*Buchloe dactyloides* Nutt.).
- George, Melvin R. 1969.** Dimethyl sulfoxide and chemical bud stimulation to increase herbicide activity in mesquite.
- Graves, Robbie G. 1971.** Effects of redberry juniper control on understory vegetation.
- Hallmark, Charles Thomas. 1972.** The distribution of creosotebush (*Larrea divaricata* Cav.) in west Texas and eastern New Mexico as a function of selected soil properties.
- Hearron, George Stanley. 1972.** A mathematical model of photosynthate transport in phloem of mesquite.
- Heirman, Alan Leo. 1971.** Effect of fire on noxious brush species in medium fuel types.
- Helm, Virgil. 1968.** Relationships of two range plant communities on the southern high plains of Texas.

Herndon, Edward B., Jr. 1969. Seeding abandoned cropland in the Texas high plains.

Horejsi, Ronald Gilbert. 1973. Influence of brushlands on white-tailed deer diets in north-central Texas.

Hudnall, Wayne H. 1971. Relationships between soil properties and mesquite *Prosopis glandulosa* Torr. density on selected calcareous soils in west Texas.

Karr, Bob Lewis. 1971. Follow-up spraying on burned and shredded mesquite.

Klett, Wamon Ellis. 1969. An evaluation of equipment used to treat depleted shortgrass ranges.

Langford, Robert Arnold. 1971. Effect of site and date on cuticle of honey mesquite leaves.

Otteni, Lee Charles. 1971. Predator-prey relationships and reproduction of the barn owl in southern Texas.

Petty, James Alfred. 1970. Factors influencing recreational land values near lakes.

Polk, Kenith Lee. 1971. The ecology of the mesquite twig girdler, *Oncideres rhodostricta* Bates, and its evaluation as a biological control agent.

Sanders, Kenneth Dwayne. 1975. Continuous versus short duration grazing on north-central Texas rangeland.

Schliesing, Thomas Gene. 1974. Ecotypic variation in *Tripsacum dactyloides*.

Sharrow, Steven Harold. 1973. Soil nitrogen in a tobosa grass community as affected by burning, grazing and clipping.

Sisson, William B. 1972. Physiological responses of five grasses to flooding.

Smith, Clayton Carl. 1971. Analysis and design of mechanical shredders for the control of noxious brush.

Smith, Lynn Lorayne Bixler. 1972. Influence of insects on mesquite reproduction.

Smith, Michael Allen. 1972. Reproduction characteristics of *Juniperus pinchoti*.

Soutiere, Edward Charles. 1971. The effects of mesquite control with 2,4,5-T and fire on mourning dove nesting ecology.

Stinson, Kenneth Jerrell. 1968. Temperatures on head fires in the southern mixed prairie of Texas.

Stuth, Jerry Wayne. 1972. Evaluation of rangeland seedings following mechanical brush control.

Swenson, Wayne Howard. 1969. Comparisons of insects on mesquite in burned and unburned areas.

Test, Peter Stephen. 1972. Soil moisture depletion and temperature affected by sand shinnery oak (*Quercus havardii* Rydb.) control.

Tharp, John Ellis. 1971. A study of scaled and bobwhite quail with special emphasis on habitat requirements and brush control.

Turrentine, Jerry Michael. 1971. The ecology of bobwhite quail in aerially sprayed sand shinnery oak habitat.

Weddle, Jon Paul. 1969. A study of five methods to re-treat sprayed mesquite.

White, Richard Sargent. 1969. Fire temperatures and the effect of burning on south Texas brush communities.

Willard, Elmer Earl. 1968. An evaluation of interseeded sideoats grama on abandoned cropland four years after stand establishment.

Wilson, Rodney Trent. 1972. Carbohydrate concentration of mesquite roots in relation to phenological development, soil temperature, and soil moisture.

Wink, Robert Lynn. 1972. Effects of fire on an ashe juniper community.

WASHINGTON STATE UNIVERSITY

Arnalds, Andres. 1974. Fertilization of native vegetation in Iceland.

Berry, Robert G. 1971. Treatment of range grass seeds with chemical repellents and deterrents for reducing bird depredation.

Brannon, Thomas A. 1972. Some interactions between nitrate nitrogen and temperature in portions of the life cycle of four range grasses.

Dewitt, Floyd P. 1969. Early developmental response to low temperatures in *Agropyron spicatum* collected from native stands in western North America.

Korphage, Robert C. 1974. Summer food habits of elk in the Blue Mountains of northeastern Oregon based on fecal analysis.

Miller, James G. 1970. Influence of selected treatments on dormancy of *Carex geyeri* (Boott.) achenes.

Paymani-Fard, Bahram. 1970. Variation in phenology and morphology of introduced accessions of *Agropyron*.

Stark, Richard H., Jr. 1973. Elk-cattle interrelations on the Colocum Creek watershed.

Stewart, William L. 1973. Emergency rehabilitation of watersheds denuded by wildfire in the ponderosa pine and Douglas-fir zones of north-central Washington.

Wondercheck, Dale E. 1972. Some soil properties affected by trampling on forested summer range in central Washington.

UNIVERSITY OF WYOMING

Almeida, Ricardo. 1969. Understory vegetation on lodgepole pine.

***Al-Roumi, Hikmat Askar. 1972.** The effect of non-protein nitrogen vs protein nitrogen of roughage utilization by sheep.

Bissell, James K. 1973. Geomorphological influence on vegetation in north-western Wyoming.

Burrough, Leslie N. 1972. Artificial revegetation trials on juniper game range in northcentral Wyoming.

Butler, Gary B. 1972. Ecological inventory and analysis of the Laramie Peak big game winter range.

Christensen, Ray. 1969. Some effects of range treatment on the distribution of elk on winter and spring ranges.

***Compton, Thomas L. 1974.** Some interspecific relationships among deer, elk, domestic livestock, and man on the Western Sierra Madre of south-central Wyoming.

Czaplewski, Raymond L. 1972. Evolution of terminal consumers in a steady state regime.

***Duncan, Don A. 1974.** Vegetation and cattle responses to fertilization and season of grazing at the San Joaquin Experimental Range, California.

Frohis, Larry A. 1969. Ecological relationships of vegetation, soils and vertebrates on paired limber pine and spruce-fir sites, Big Horn Mountain, Wyoming.

Gardner, Robert C. 1972. A biosystematic study of *Cirsium* (compositae) in Wyoming.

Gordon, Robert C. 1974. Multispectral imagery for range vegetation type mapping and estimation of above-ground green biomass.

Garland, Claude, III. 1972. Ecology of arid land vegetation in western Wyoming.

Goodwin, Gregory A. 1973. Fecal analysis as a measure of forage utilization by mule deer in southeastern Wyoming.

Guest, James. 1969. Distribution and description of natural salt licks.

***Guest, James. 1971.** Carrying capacity of elk summer range.

Gunderson, John Joseph. 1970. Plan B Professional Papers—A discussion of some important aspects of rangeland carrying capacity with emphasis toward deer of the genus *Odocoileus*.

Hanson, Clinton E. 1974. An evaluation of the sagebrush and juniper types as mule deer winter range at three locations in Wyoming.

Hartman, Ronald Lee. 1971. The family Caryophyllaceae in Wyoming.

Hutcheson, James L. 1972. Response patterns of *Bouteloua gracilis* leaf water potential, measured with the thermocouple psychrometer.

Ibarra, Arturo. 1972. Grasses of Nuevo Leon.

***Ingold, Donald A. 1969.** Social organization and behavior in a Wyoming pronghorn population.

Jacobs, Jerry G. 1973. A microtechnique index to pronghorn diet and sagebrush digestion coefficients.

Jacoby, Pete W. 1968. Revegetation studies on coal spoil banks in south-western Wyoming.

***Jacoby, Pete. 1971.** Interrelationships of vegetation and environmental factors on a mountain watershed in southeastern Wyoming.

***Jefferies, Ned W. 1968.** Grazing management and nutrition of yearling cattle on shortgrass rangeland.

***Jones, Webster B. 1972.** A vegetation study of the sheep mountain watershed, Albany County, Wyoming.

Julian, Ronnie F. 1971. An evaluation of the Green River in relation to its naturalness.

Julian, Truman. 1969. Elk on Commissary Ridge, western Wyoming.

Khan, Ch. M. Anwar. 1967. Clipping studies and ecological observations on *Cenchrus ciliaris* (Linn.) and *Elyonurus hirsutus* (Vahl.), in Pakistan.

***Khan, Ch. M. Anwar. 1968.** The effects of different frequencies of clippings of forage production of *Cenchrus ciliaris* (Linn.) and *Elyonurus hirsutus* (Vahl.), in Pakistan.

Krumm, Robert E. 1969. An ecological study of the Audubon's Cottontail on the Laramie Plains.

***Lester, James E. 1972.** The effects of livestock grazing on the response of high mountain vegetation determined from a study of net production and utilization.

Limbach, W. Eric. 1974. Comparative physiological ecology of *Elymus canadensis* L., a C₃ grass, and *Andropogon hallii* Hack., a C₄ grass, in eastern Wyoming.

Loeper, Richard. 1972. The grama grasses (*Bouteloua*).

***Maxwell, Marvin H. 1973.** Rodent ecology and pronghorn energy relations in the Great Divide Basin of Wyoming.

MacDonald, Linda. 1974. Opal phytoliths as indicators of plant succession in northcentral Wyoming.

- Mitchell, Glen C. 1971.** Spatial distribution and successional state of grass-land vegetation related to grazing intensity treatments.
- Muchmore, Duane C. 1969.** An ecological study of mule deer on an all season range.
- Meyers, William E. 1969.** Relationship of vegetation to geologic formations along Sheep Mountain, Albany County, Wyoming.
- Nelson, Burrell E. 1974.** Vascular plants of the Medicine Bow Mountains, Wyoming.
- Nelson, James T. 1974.** Big game and livestock range use in the Seminoe Mountains of Wyoming.
- ***Noller, Gary. 1968.** The relationships of forage production to precipitation, cover and soils in north central Wyoming.
- Oakley, Charles. 1971.** Elk distribution in relation to a deferred rotation grazing system.
- Probasco, George E. 1968.** Diet preferences and utilization patterns of elk in northern Big Horn Mountains, Wyoming.
- ***Ries, Ronald E. 1973.** Quantitative evaluation of herbage production and site factors on ecologically diverse sagebrush-grass locations in Wyoming.
- Rogers, B. S. 1974.** The regulation of understory pattern in lodgepole pine and spruce-fir forests, Medicine Bow Mountains, Wyoming.
- Sabinske, Darold W. 1972.** The sagebrush community of Grand Teton National Park: A vegetation analysis.
- Shaver, Jens C. 1972.** Evaluation of vegetation types differentiated by aerial photo interpretation of panchromatic color and infrared imagery.
- ***Skinner, Quentin D. 1974.** Bacteriology and associated vegetation of a high mountain watershed.
- Spraker, Ted H. 1974.** An ecological study of the mule deer (*Odocoileus hemionus hemionus*) on Sheep Mountain, Albany County, Wyoming.
- ***Steger, Robert E. 1970.** Soil moisture and temperature relationships of six salt desert shrub communities in northcentral Wyoming.
- Starr, C. Richard. 1974.** Subalpine meadow vegetation in relation to environment at Headquarters Park, Medicine Bow Mountains, Wyoming.
- ***Taylor, Dale L. 1969.** Biotic succession of lodgepole pine forests of fire origin in Yellowstone National Park.
- Thompson, Wesley. 1969.** Cover establishment on strip-mined area using two rhizomatous grass species.
- Thorn, Michael. 1969.** Botanical composition of sheep diets on an alpine range.
- Todd, Lynn. 1969.** Preference and utilization trends by cattle on grass-forb vegetation in the northern Big Horn Mountains, Wyoming.
- Tuncay, Tukul. 1969.** Production and utilization of *Onobrychis viciifolia* (Seop.), *Astragalus cicer* (L.) and *Alopecurus arundinaceus* (Poir.) in Wyoming.
- ***Tuncay, Tukul. 1972.** Analysis of two range exclosures in Laramie, Wyoming.
- Wambolt, Carl L. 1968.** Size, density, growth rate, and age of Rocky Mountain juniper and interrelationships with environmental factors.
- ***Wambolt, Carl L. 1970.** Moisture stress in woody plants of Wyoming as influenced by environmental factors.
- Welch, Arthur J. 1968.** Livestock grazing effects on all season mule deer ranges.
- White, Mack Lee. 1968.** Ecology of amelanchier in western Wyoming.
- ***Whysong, Gary L. 1973.** Development and evaluation of statistical models for predicting perennial grass production in northcentral Wyoming.

Literature Cited

- Box, Thadis W. 1966.** Range management theses 1961-1965. *J. Range Manage.* 19:310-313.
- Kinsinger, F. E., and R. E. Eckert. 1961.** Range management theses since 1955. *J. Range Manage.* 14:51-54.
- Kinsinger, F. E., and R. E. Eckert. 1962.** Range management theses for 1960 and 1961. *J. Range Manage.* 15:57-58.
- Schmutz, Ervin M. 1967.** Range management theses 1966. *J. Range Manage.* 20:329-330.
- Tueller, Paul T. 1968.** Range management theses 1967. *J. Range Manage.* 21:341-342.

Rangeland Plant Physiology

edited by **Ronald A. Sosebee**

- 290 pages
- illustrated
- soft cover perfect bound
- extensive bibliographies
- \$12.00 postpaid

In nine chapters, RANGELAND PLANT PHYSIOLOGY discusses the characteristic life processes, activities, and functions of the rangeland plant.


Of particular interest to all who study, manage, or simply admire plant life, the book is a valuable college text supplement and a reference source for range managers and technicians. Each chapter, authored by one or more authorities in the field, examines in considerable depth one aspect of plant physiology. Chapters include:

I. Gas Exchange in Photosynthetic Pathways in Range Plants; II. Carbohydrate Translocation in Range Plants; III. Distribution and Utilization of Carbohydrate Reserves in Range Plants; IV. Water Relations of Range Plants; V. Salinity Effects on Range Plants; VI. Seed Physiology; VII. Plant Growth Regulators; VIII. Mineral Cycling in Rangeland Ecosystems; IX. Developmental Morphology and Management Implications.

Society for Range Management
2760 West Fifth Ave.
Denver, Colorado 80204

WHEN YOU'RE THINKING OF
NATIVE GRASSES

THINK OF
SHARP BROS. SEED CO.



SHARP BROS. SEED CO.
Healy, Kansas 67850
Phone (316) 398-2231

CLYDE ROBIN
NATIVE SEEDS

Castro Valley, California 94546