## Ph.D. Dissertations and M.S. Theses

### SCHOOL OF RENEWABLE NATURAL RESOURCES

#### THE UNIVERSITY OF ARIZONA February 24, 1977

# Ph.

1967

1967

Blydenstein, John

Colombia.

Claveran, Ramon Alonso

.D. Disse	rtations
1959	Ferguson, Charles Wesley Annual Rings in Big Sagebrush, Artemisia Tridentata. 162 pages.
1960	Hungerford, Charles Roger  The Factors Affecting the Breeding of Gambel's Quail, Lophortyx Gambelii Gambel in Arizona.  94 pages.
1961	Dalton, Patrick D., Jr.  Ecology of the Creostebush Larrea Tridentata D.C. Voc. 162 pages.
1963	Schmutz, Ervin M.  Factors Affecting the Absorption, Translocation, and Toxicity of Herbicides on Creosotebush.
1963	Tachirley, Fred M.  A Physio-Ecological Study of Jumping Cholla  (Opuntia Fulgida Engelm.) 100 pages.
1964	Martin, Samuel Clark Some Factors Affecting Vegetation Changes on a Semi-Desert GrassShrub Cattle Range in Arizona. 122 pages.
1966	Qashu, Hasan Khalil Estimation of the Elements of the Water Balance of Ephemeral Stream Channel With Riparian Vegetation. 141 pages.
1966	Thames, John Long Flow of Water Under Transient Conditions in Unsaturated Soils. 88 pages.
1966	Zwolinski, Malcolm John Changes in Water Infiltration Capacities Following Burning of a Ponderosa Pine Forest Floor.

The Savanna Vegatation of the Llanos Orientales,

Desert Grassland Mesquite and Fire. 164 pages.

- 1967 Marquiss, Robert W.
  Influence of Seedbed Microclimates on Soil
  Moisture Retention in Sagebrush Rangelands.
  169 pages.
- 1967 Saunier, Richard Eugene
  Geographic Variability of Creosotebush in
  Response to Moisture and Temperature Stress.
  99 pages.
- 1968 Fogel, Martin M.

  The Effect of the Spatial and Temporal
  Variations of Rainfall on Runoff From
  Small Semiarid Watersheds.
- 1968 Lehman, Gordon Stanley
  Soil and Grass Filtration of Domestic Sewage
  Effluent for the Removal of Trace Elements.
  108 pages.
- 1968 Mace, Arnett C., Jr.

  The Influence of Climatic, Hydrologic, and
  Soil Factors on Evapotranspiration Rates of
  Tamarisk (Tamarix Pentandra Pall.) 104 pages.
- 1968 White, Larry D.

  Factors Affecting Susceptibility of Creosotebush
  (Larrea Tridentata (D.C.) Cov.) To Burning.
- 1969 Budelsky, Carl A.

  Variation in Transpiration and its Relationship
  With Growth for Pinus Ponderosa Lawson in Southern
  Arizona. 85 pages.
- 1969 Knipe, Oren Duane
  Factors Affecting the Germination of Alkali
  Sacaton (Sporobolus Airoides Torr.) 82 pages.
- 1970 Brooks, Kenneth Norman

  The Effects of Antitranspirant Chemicals on the
  Transpiration and Physiology of <u>Tamarix</u> Species.

  84 pages.
- 1970 Ffolliott, Peter Frederick
  Characterization of Arizona Snowpack Dynamics
  for Prediction and Management Purposes. 171 pages.
- 1970 Maynard, Michael Lee
  Some Effects of Heat on the Physiology of
  Mesquite (Prosopis Juliflora). 87 pages.

- 1970 Tiedemann, Arthur Ralph
  Effect of Mesquite (Prosopis Juliflora) Trees on
  Herbaceous Vegetation and Soils in the Desert
  Grassland. 159 pages.
- 1971 Bryant, David Arley
  Fertilization and Burning Effects on Use of
  Desert Grassland by Cattle. 157 pages.
- 1971 Halverson, Howard Gene Seasonal Snow Surface Energy Balance at the Central Sierra Snow Laboratory. 107 pages.
- 1971 Williams, Kenneth Buck
  Ecological and Morphological Variations of
  Vauquelinia Californica (Torr.) Sarg. 178 pages.
- Beasley, R. Scott

  Bristlecone Pine (Pinus Longaeva) in Relation
  to Environmental Factors and Soil Properties in
  East-Central Nevada. 151 pages.
- 1972 Foerster, Eugene Paul

  The Effect of Urbanization on Watershed Rumoff.
- 1972 Foster, Kenneth Earl
  Mathematical Analysis of Soil Temperatures
  in an Arid Region. 83 pages.
- 1972 Galt, Henry Deloss
  Relationship of the Botanical Composition of
  Steer Diet to Digestibility and Forage Intake
  on a Desert Grassland.
- 1972 Kitchen, Joseph H.

  Measurements of Salt Dispersion in Unsaturated
  Sand Using Pulsed Electronic Pschrometer. 75 pages.
- 1972 Kurtz, William Boyce
  The Demand for Motor Boat Use of Large Reservoirs
  in Arizona. 150 pages.
- 1972 Peine, John Douglas

  Land Management for Recreational Use of Off-Road

  Vehicles.
- 1972 Pinkney, Fred Coatsworth
  Carbohydrate Reserves and Photosynthesis in the
  Hilaria Genus. 101 pages.
- 1972 Tinlin, Richard McGee
  Analysis and Application of a Passive Electronic
  Analog Model to the Hydrologic Regime of a
  Watershed. 109 pages.

- 1973 Czarnowski, Kenneth James
  The Role of Vacation Homes in a Recreation
  Complex. 166 pages.
- 1973 Fish, Ernest Bertly
  Phytosociology Studies of a Desert Grassland
  Site. 46 pages.
- 1973 Rasmussen, William Otto
  A CAI Language for Mini-Computers with
  Simple Dialogue and Problems Relating Physics
  and Wildland Hydrology. 151 pages.
- 1973 Tromble, John M.

  Thermal Gradients and Water Transfer in Unsaturated Soil.
- 1973 Welch, Tommy Gwenn
  Distribution of Nitrogen and Carbon in Ponderosa
  Pine Ecosystems as a Function of Parent Material.
- 1973 Zere, Gebrehiwet

  Economics of Water Development on Government
  Lands in Southern and Southeastern Ethiopia.
  105 pages.
- 1974 Bartlett, Ellsworth Thomas
  A Decision-Aiding Model for Planning Optimal
  Resource Allocation of Water Basins.
- 1974 Heidmann, LeRoy Jerpe
  An Investigation into the Causes and Prevention
  of Frost Heaving of Forest Tree Seedlings.
- 1974 Patton, David Roger
  Characteristics of Ponderosa Pine Stands
  Selected by the Abert's Squirrel for Cover.
- 1974 Schickedanz, Jerry Guy
  Seasonal Growth, Development, and Carbohydrate
  Reserves of Three Native Range Grasses in
  Response to Seasonal Moisture and Nitrogen
  Fertilization.
- 1974 Rietveld, Willis James
  Chemical Ecology of a Northern Arizona Ponderosa
  Pine-Bunchgrass Community.
- 1974 Beschta, Robert L.
  Streamflow Hydrology and Simulation of the Salt River
  Basin in Central Arizona

- 1974 Born, Ted Jay
  Characteristics and Satisfactions of Elderly Winter
  Visitors at Public Land Camping Sites in the Lower
  Colorado River Basin. 154 pages.
- 1974 Burde, John Henry III

  The Use of Production Economics to Allocate Resources in Timber and Herbage Production. 165 pp.
- 1974 Cary, Lawrence Ernest
  A Stochastic Snow Model. 135 pp.
- 1974 Matias Filho, Jose (Brazil)
  Water Resources Management for Part of the Lower Gila
  Valley.
- 1975 Affleck, Richard Steven
  Potential for Water Yield Improvement in Arizona
  Through Riparian Vegetation Management. 238 pp.
- 1975 Haferkamp, Marshall Roy
  Some Physiological and Physical Changes Exhibited by
  Seeds of Lehmann Lovegrass with Pre-sowing Seed
  Treatments of Moistening and Drying. 114 pp.
- 1975 Schultz, A. Jay
  The Use of Science in Natural Resource Policy making.
  155 pp.
- 1975 Barth, Richard C.
  Spatial Distribution of Carbon on Nitrogen in Some
  Desert Shrub Ecosystems. 130 pp.
- 1975 DeAranjo, Filho
  Characterization of Range Sites in the Empire Valley
  Arizona. 108 pp.
- 1975 Heywood, John Lee
  Group Cohesiveness and Satisfaction on Grand Canyon
  Colorado River Raft Trips. 161 pp.
- 1976 Pond, Floyd Williams
  Growth, Development and Nutritive Value of Some Arizona
  Chaparral Species. 120 pp.
- 1976 Eakle, Thomas William

  The Effects of Controlled Burning on a Southwestern
  Ponderosa Pine Understory: a factor analysis.
- 1976 Garcia, Rasmo (Brazil)
  Carbohydrate Reserves, Growth and Development of
  Sideoats Grama as Influenced by Seasonal Clipping

1976 Fischer, John North
Simulation of Hydrologic Processes for Surface Mined
Lands. 122 pp.

#### M.S. Theses and Professional Papers

- Johnsen, Thomas N., Jr.

  The Effects of Nitrogen and Phosphate Fertilizers
  Upon a Southern Arizona Range. 26 pp.
- 1955 Barr, George V.

  A Comparson of the Survival Over a Twenty-Year
  Period of Several Native Arizona Grasses. 34 pages.
- 1955 Freeman, Barry N.

  The Effects of Nitrates and Phosphates Upon
  Forage Production of a Southern Arizona Desert
  Grassland Range. 26 pages.
- 1955 Leviness, Edward Arthur
  Perennial Grass Preferences of Range Livestock
  on the Western Slope of the Dragoon Mountains of
  Southern Arizona. 30 pages.
- 1955 Mehrhoff, Loyal A., Jr.

  Vegetation Changes on a Southern Arizona

  Grassland Range- an Analysis of Causes. 48 pages.
- 1956 Branscomb, Bruce L.

  Shrub Invasion of a Southern New Mexico Desert
  Grassland Range. 43 pages.
- 1956 Cooper, Charles F.
  Yield and Value of Wild-Land Resources of the
  Salt River Watershed, Arizona. 47 pages.
- 1956 Garner, James B.

  The Effects of Various Formulations of Three Phenoxy
  Herbicides on Acacia Vernicosa Standl. and
  Flourensia Cernua DC. 25 pages.
- 1957 Blydenstein, John
  The Survival of Velvet Mesquite (Prosopis
  Juliflora Var. Velutina ) After Fire. 21 pages.
- 1959 Cable, Dwight R.

  Some Effects of Fire and Drought on Semidesert
  Grasses and Shrubs. 27 pages.
- 1959 Holt, Gary A.

  The Effect of Commercial Fertilizers on Forage
  Production on a Desert Grassland Site. 29 pages.

1959 Kincaid, David Reed
The Upper Desert Grassland of Southern Arizona a Basic Ecological Analysis. 38 pages.

1959 Tixier, J.S.

Effect of Ammonium Phosphate on a Southern Arizona
Desert Grassland Range. 20 pages.

1960 Whitham, David Walter
An Ecological and Econimic Study of the Effect of
Various Herbicidal Treatments on Grass-Shrub Relationships in the Arizona Chaparral. 52 pages.

Johnson, Donald E.

Edaphic Factors Affecting the Distribution of
Creosotebush Larrea Tridentata D.C. Dov. in
Desert Grassland Sites of Southeastern Arizona.
58 pages.

Mukhtar, Hashim A.M.
Factors Affecting Seed Germination of Some
Important Desert Plants. 54 pages.

1962 Al-Rabbat, Mohamad Fouad
The Effect of Moisture, Depth of Planting, and
Compaction on Seedling Emergence of Winterfat
and Crested Wheatgrass. 54 pages.

1962 Anklam, George L.

The Effect of Commercial Fertilizers on the Forage Production of Chaparral Lands in Central Arizona Following Burning, Reseeding, and Herbicide Treatments. 32 pages.

1962 Follett, Edson Roy
The Increase of Cholla (Opuntia Fulgida Engelm)
in Relation to Associated Species on a Desert
Grassland Range of Southern Arizona. 28 pages.

Halverson, Howard G.

Transpiration and Evaportranspiration With Aleppo
Pine Pinus Halepensis Mill. Seedlings Under
Varying Soil Moisture and Solar Radiation Levels.
58 pages.

Mace, Arnett Clay, Jr.

A Quantitative Measure of the Effect of the Soil
Moisture and Atmospheric Moisture on the Growth
of Trees. 52 pages.

1962 McRae, Rulon G.
Factors Affecting the Absorption and Translocation of 2, 4-D in Tarbush (Flourensia Cernua DC).

- 1962 Silvey, Hilton Lee

  A Method for Determining Evaporation, Transpiration
  And Evapotranspiration in Pine Stands by Soil
  Moisture. 84 pages.
- 1962 Troxel, W.C.

  A Field Comparison of the Point Quadrat and the Parker Three-Step Methods of Evaluating Range Condition.
- 1963 Asare, Ebenezer Okae
  The Germination of Certain Introduced African
  Grasses as Influenced by Different Temperature
  and Moisture Stresses. 51 pages.
- 1963 Sissay, Bekele

  The Effects of Fertilizers Applied to a Chaparral
  Soil on the Emergence, Growth, Yield, and
  Nutrient Content of Lehmann Lovegrass. 38 pages.
- Bentley, R. Gordon, Jr.

  The Effects of Three Moisture Levels Applied to
  Lehmann Lovegrass Grown on a Fertilized Desert
  Grassland Soil. 35 pages.
- 1964 Colmer, Gerald K.

  The Effects of Added Nutrients on Current Year
  Circumference Growth of Ponderosa Pine Under
  Varying Levels of Soil Moisture. 59 pages.
- Potter, John R.

  The Effect of Nitrogen and Phosphorus on the Early Development of Pinus Ponderosa Laws Seedlings in Soil and Sand Cultures Under Greenhouse Conditions. 140 pages.
- 1964 Saunier, Richard Eugene
  Factors Affecting the Distribution of Shrub Live
  Oak. (Quercus Turbinella)
- 1964 Wheeler, Jack H.
  Pellet Seeding of Lovegrasses on Southern Arizona
  Rangelands.
- 1964 Williams, Christopher P.

  Lehmann Lovegrass-Velvet Mesquite Invasion
  Relationships in the Desert Grassland. 55 pages.
- 1965 Bales, Robert Lee
  Ecology of a Cleared Chaparral Site Under Different
  Nutrient Treatments. 117 pages.

1965	Claveran, Ramon Alonso
	Survival and Spreading Ability of Endemic and
	Exotic Grasses on a Desert Grassland Site. 77 pages.

- 1965 Kemp, Kenneth
  A Study of Litter and Vegetation in the Upper
  Chaparral Area of Central Arizona. 79 pages.
- 1965 Little, David Edwin
  Factors Affecting the Susceptibility of Snakeweeds
  to Herbicides. 63 pages.
- 1965 Suhr, Wesley Eugene
  A Method of Soil and Vegetation Analysis for
  Measuring Effects of Recreational Use in the
  Mixed Conifer Zone. 193 pages.
- Tapia, Carlos Jasso
  Root Nodule Studies of a Desert Browse Legume
  Guajilla (Calliandra Eriophylla Benth.) 51 pages.
- 1965 Tiedemann, Arthur Ralph
  Recovery of Burned-Reseeded and Chemically
  Treated Aok-Chaparral in Arizona. 66 pages.
- 1965 Warskow, William L.
  Factors Affecting Stomatal Opening of Creosotebush
  (Larrea Tridentata) (DC.) Cov.) And Their
  Combined Effect on Herbicide Activity.
- 1965 White, Larry D.

  The Effects of a Wildlife on a Desert Grassland Community. 107 pages.
- 1965 Whiting, Robert Montague, Jr.

  Tree Characteristics in Relation to Growth of Ponderosa Pine. 31 pages.
- 1965 Williams, Gerald
  Effects of Rainfall on Soil Surface Characteristics Following Range Seeding Practices. 50 pages.
- 1966 Ashton, Peter G.
  Factors Affecting Snow Evaporation in the White
  Mountains of Arizona.

1966 Beasley, Roy Scott The Effects of Thinning and Nutrient Treatments on the Growth of Ponderosa Pine. 62 pages. 1966 Galt, Henry Deloss The Botanical Composition of Steer Diet on a Semi-Desert Range. 99 pages. 1966 Kitchen, Joseph Henry, Jr. Regeneration of Ponderosa Pine Fire-Nutrient Influences. 68 pages. 1966 Rea, Paul L. The Bureau of Outdoor Recreation: Meeting the Crisis? 40 pages. 1967 Burkholder, Dennis Alan Interspecific Differences Among Five Southern Desert Grasses as Affected by Varying Moisture And Fertilizer Levels. 49 pages. 1967 Chaudhry, Anwar Tariq Drought Hardiness in Tomatoes. 57 pages. 1967 Drew, Allan P. Stomatal Activity in Semi-Arid Site Ponderosa Pine. 58 pages. 1967 Koltz, Bruce G. Root Responses of Crested Whestgrass to Nitrogen and Phosphorus Fertilization. 79 pages. 1967 O'Rourke, James T. Edaphic Conditions Influencing Vegetative Response Following Pinyon-Juniper Control in North-Central Arizona. 83 pages.

1967 Russell, William L., Jr.

Comparison of Soil Water Regimes Under Natural,
Thinned, and Clearcut Stands of Ponderosa Pine
in the White Mountains of Arizona. 75 pages.

1967 Schumann, Herbert H.

Water Resources of Lower Sycamore Creek, Maricopa
County, Arizona.

1967 Zander, Almer D.

Some Effects of Juniper-Grass Vegetation on
Soil Characteristics and Soil-Water Relationships
in East-Central Arizona.

de Araujo, Joao Ambrosio, Filho
Carbohydrate Storage in Roots, Underground Stems
and Stem Bases of Guinea Grass as Affected by
Interval of Cutting. 49 pages.

Hawkinson, Richard O.

Cover, Soil, and Microrelief Characteristics Which
Influence Runoff on a Desert Grassland Range.

91 pages.

1968 Irland, Lloyd C.

The Cattle Cycle and the Range Livestock Industry.

45 pages.

Mapston, Raymond D.

The Use of Structures to Facilitate Antelope
Movemont Through Sheep-Tight Fences. 79 pages.

Moreno, Eduoro M.

Effect of Controlled Burning on Basal Cover and
Soil Erosion Within a Desert Grassland Community
Near Cananea, Sonora, Mexico. 53 pages.

Reed, Alan Joseph
Seepage Determinations From Water Stage and
Evaporation Records With Application to Inflow
Hydrographs. 42 pages.

1968 Sebenik, Paul G.

An Evaluation of the Enclosure Effect of
Evapotranspiration Tents on Leaf Temperatures
of Tamarix Pentandra. 96 pages.

1968 Shown, Lynn M.

Some Factors Affecting the Conversion of Sagebrush to Grasslands.

Stevens, Richard

The Effect of Low Soil Temperatures on the Growth and Carbohydrate Content of the Roots of Lehmann Lovegrass (Eragrostis Lehmanniana Nees.) 77 pages.

1968 Zemo, Tesfay
Behavior and Grazing Preference of Fistulated
Steers on a Desert Grassland. 67 pages.

1969 Delk, Robert
Snow Distribution Patterns Under Various Stand
Densities of Ponderosa Pine. 47 pages.

1969 Gale, Robert David

Development and Testing of a Portable Air

Permeameter for Measuring Compacted Surfaces.
66 pages.

1969 Garn, Herbert Siegfried
Factors Affecting Snow Accumulation, Melt, and
Runoff on an Arizona Watershed. 115 pages.

1969 Johnson, Curtis M.

The Brushy Basin Chaparral Type Conversion
Project: A Study in Multiple Use Administration
on the Tonto National Forest. 36 pages.

1969 Kanerva, Roger Alan
An Attitude Measurement Approach to the Analysis
of Decision-Making Concerning the Man-Nature
Policy Problem. 96 pages.

1969 Lejcher, Terrence R.

Snow Accumulation and Melt Under Various Densities of Ponderosa Pine in Arizona. 70 pages.

1969 Owings, James R.

The Demand for Land Based Outdoor Recreation in the Tucson Area. 154 pages.

Peine, John Douglas
A Comparison of the Recreation Use Patterns of the
Tucson Jeep Club and the Tucson Sand Buggy Association.
85 pages.

1969 Pinkney, Fred Coatsworth
Factors Affecting the Distribution of Hilaria
Species in Arizona. 50 pages.

1969 Powers, William Riley III

The Influence of Sodium Chloride and Gravel

Treatments on Infiltration. 80 pages.

1969 Rector, John Raymond
Infiltration Characteristics of Soils in the
Beaver Creek Area of North Central Arizona.
60 pages.

1969 Ryan, James Arthur
Sampling Study of the Physical Properties of
Several Soil Types in Northern Arizona. 73 pages.

1969 Smith, Freeman M.

The Relation of Sagebrush Leaf Area to Bush Size. 54 pages.

- 1969 Tinlin, Richard M.
  A Passive Direct Electric Analog of a Watershed.
  22 pages.
- 1969 Wilhelm, Melvin Joe
  Germination and Seedling Growth as Affected
  by Alternate Wetting and Drying of Seeds of
  Eragrostis Lehmanniana Nees. 55 pages.
- 1970 Blecker, Robert Franklin
  Saturated Flow of Water Through Clay Loam Subsoil
  Material of the Brolliar and Springerville Soil
  Series. 71 pages.
- 1970 Caraher, David Luther

  Effects of Longtime Livestock Exclusion Versus
  Grazing on the Desert Grassland of Arizona. 45 pages.
- 1970 Chumo, Samuel Kipleting
  Burroweed (Haplopappus Tenuisectus) and Lehmann
  Lovegrass (Eragrostis Lehmanniana) Competition.
  38 pages.
- 1970 Mbuvi, David Mutemwa
  Growth of Guines Grass (Panicum Maximum Jacq.)
  Following Clipping and Application of Indole-3Acetic Acid and Gibberellic Acid. 48 pages.
- 1970 Smith, David Allan
  Successional Trends on Protected Versus Grazed
  Desert Grassland Ranges in Arizona. 62 pages.
- 1970 Tapia, Carlos Ramon
  Germination Responses of Three Desert Grasses
  to Moisture Stress and Light. 40 pages.
- 1971 Beets, Martin L.

  Tree Growth and Understory Production After
  Thinning Ponderosa Pine in Arizona. 43 pages.
- D'Amelio, James F.
  Streamflow of Reno Highlands in the White
  Mountains of Arizona.
- 1971 Lacey, John Robert
  Estimating Forage Production Under Ponderosa
  Pine Canopy With the Heterodyne Vegetation
  Meter. 98 pages.
- 1971 Metto, Paul Kiming'eny
  Control of Catclaw (Acacia Greggii) With
  Picloram in Southern Arizona. 46 pages.

1971	Robertson, Judd Lawrence An Evaluation of Four Eragrostis Species as Forage Plants for Ceara, Brazil. 58 pages.
1971	Wilkerson, Lonnie O., Jr. An Interpretation of the Military Water Well Drilling Program in South Vietnam.
1972	Abdullahi, Ahmed Reseeding Denuded Pastoral Land in East Africa.
1972	Cunningham, Robert Sewell Evaluation of Transpiration Suppressants as an Alternative to the Eradication of Saltcedar Thickets. 56 pages.
1972	Heidt, Jack Daniel Conceptual Development of an Analytical Recreation Use Model for the Madera Canyon Recreation Area. 79 pages.
1972	Hekman, Louis H., Jr.  Computer Assisted Instruction: Linear Programming Applied to Watershed Management. 120 pages.
1972	Jackson, Patrick Lee

- Jackson, Patrick Lee
  Predicting Degree Day Snow Melt Factors With
  Crown Closure in Arizona Ponderosa Pine.
- \*1967 Bartlett, Thomas Ellsworth
  The Effects of Several Herbicides on Creosotebush
  in Relation to Carbohydrate and Moisture Levels.
  87 pages.
- 1972 Matias Filho, Jose
  Water Resources Management for the Lower Gila Valley.
- 1972 O'Hayre, Arthur Paul
  Parameter Optimization for Simulating Semiarid Watershed Hydrology. 74 pages.
- Johnson, Robert Chester
  Procedures for Developing a Model for Planning WaterBased Linear Parks Along Stream Channels in Semiarid
  Urban Regions. 100 pages.
- 1973 Kaplan, Marehabriel
  Changes in Water Infiltration Capacities Following the
  Application of a Wetting Agent on a Ponderosa Pine
  Forest Floor. 48 pages.
- 1973 Kingsley, Russell Leonard
  A Plan for Public Camping, Picnicking, and Hiking
  Facilities in the Tucson Area. 43 pages.

- 1973 May, Larry Alden
  Resource Reconnaissance of the Gran Desierto Region,
  Northwestern Sonora, Mexico.
- 1973 McVay, Francis Harris
  A Christmas Tree Marketing Study in Tucson, Arizona.
  73 pages.
- 1973 Tennyson, Larry Charles
  Snowfall Interception in Arizona Ponderosa Pine Forests.
  56 pages.
- 1974 Gopen, Stuart Rogers
  A Time-Space Technique to Analyze Snowpacks in and Adjacent to Openings in the Forest.
- 1974 Richards, Merton Taylor
  An Activity Typology for Outdoor Recreation in the Mogollon Rim Area. 118 pages.
- 1974 McCleery, Dick Ray
  Effects of Temperature on Germination of Selected
  Browse Species.
- 1974 Yu, John Kuo-An
  The Utilization of Tree-Ring Data to Predict
  Hydrologic Properties of Semiarid Watersheds.
- 1974 Almeida, Francisco G. (Brazil)
  Nitrogen Balance for Range Ecosystems in Ceara, Brazil
- 1974 Davis, Thomas Franklin (No thesis)
- Jones, Mikeal Edgar
  Differential Release of Water from Arizona Snowpacks.
  53 pp.
- 1974 LeFevre, Robert Edward
  Effects of Gambel Oak on the Characteristics of Litter
  on Ponderosa Pine Forest. 76 pp.
- 1974 Medina Torres, Jorge G. (Mexico)
  Seasonal Variations in the Infiltration Rate of a
  Whitehouse Soil in Southern Arizona. 41 pp.
- 1974 Nemati, Nasser (Iran)
  Shrub Transplanting for Watershed Management and Range
  Improvement in Iran. 52 pp.
- 1974 Ratcliff, Thomas D.

  Kaibab Squirrel Activities in Reltion to Forest
  Characteristics. 39 pp.

- 1974 Story, Mark Thomas
  Nitrogen Fixation by Ceanothus Fendleri and Lupinus
  Argenteus as a Function of Parent Material and Vegetal
  Covers. 69 pp.
- 1974 Horak, William F.

  A Bacterial Water Quality Investigation of Canyon Lake,
  Arizona. 54 pp.
- 1974 Larson, Douglas Kurt
  An Analysis of the Motor-row Conversion Issue of Colorado
  River Float Trips.
- 1974 Paskett, Curtis J.

  Sediment Yield of Selected Watersheds West of the Great
  Plains. 72 pp.
- 1974 Solomon, Rhey Maurice
  An Assessment of Snowpack Depletion-Surface Runoff
  Relationships on Forested Watersheds.
- 1974 Sule, Bello (Nigeria)
  Growth, Development and Carbohydrate Reserve of Sideoats
  Grama and Plains Lovegrass. 36 pp.
- 1974 Warren, Mark A.
  Snowpack Dynamics in Relation to Inventory-Production
  Variables in Arizona Mixed-Conifer.
- 1975 Abrahams, Kenneth David (No thesis)
- 1975 Chandler, Denis Lee (No thesis)
- 1975 Elder, Daniel Robert (No thesis)
- 1975 McCormick, Dale Patrick
  Effect of Mesquite Control on Small Game Populations.
  66 pp.
- 1975 Patten, Richard Thomas

  A Watershed Volume Response Model Considering Contributing
  Area. 65 pp.
- 1975 Utter, Jack Gene
  A Comparative Water Quality Analysis of Selected
  Recreation Lakes and Streams in the White Mountains of
  Arizona.
- 1975 Welch, Barry Wayne
  Validation of Snowpack Inventory Prediction Relationships
  in Arizona Ponderosa Pine Forests.

- 1975 Aul, Jerry Steven
  Use of Areal Snow Cover Measurements to Develop
  Snowmelt-Runoff Relationships for Arizona. 48 pp.
- 1975 Coffeen, Jeffrey Hale (No thesis)
- 1975 Tunnicliff, Brock Matthew
  The Historical Potential of Snowfall as a Water Resource
  in Arizona. 137 pp.
- 1975 Bisson, Henri R.

  Assessment of Forest Stocking Conditions by Multiple-Stage Remote Sensing Techniques. 59 pp.
- 1975 Curry, Kevin Daniel
  An Experimental Study of the Effects of Galvano-narcosis
  on Behavior and Growth of Rainbow Trout and Channel
  Catfish.
- 1975 Goodwin, John G., Jr.
  Population Densities and Food Selection of Small Rodents
  on Arizona Ponderosa Pine Forests. 72 pp.
- 1975 Hanes, William Toby
  Predicting Snowmelt Runoff Using Deterministic Watershed
  Model with Stochastic Precipitation Inputs. 83 pp.
- 1975 Kueffer, William C (MLA) (No thesis)
- 1975 Lowe, Philip Orral
  Potential Wildlife Benefits of Fire on Ponderosa Pine
  Forests. 131 pp.
- 1975 Rickel, Bryce Wayne

  The Effectiveness of <u>Tilapia Zillii</u> on Controlling
  Aquatic Vegetation in Southwestern Ponds.
- 1975 Swarbrick, Bonnie M.

  The Mexican Duck in Arizona's Sulphur Springs Valley.
  25 pp.
- 1976 Chojnacky, David Carl
  Christmas Tree Species Trials in Arizona's East-Central
  Mountains. 54 pp.
- 1976 Costa, Ralph
  Cottontail (Sylvilagus Auduboni) Response to Ponderosa
  Pine Forest Management. 42 pp.
- 1976 Danner, Dennis Alan
  Coyote Home Range, Social Organization, and Scent Post
  Visitation. 86 pp.

1976	Martin, Richard Christopher	
	Soil Moisture Use by Velvet Mesquite	(Prosopis
	Juliflora). 33 pp.	

- 1976 Motschall, Robert Michael
  Water Quality Analyses of the Recreational Water of
  Sabino and Bear Creeks. 132 pp.
- 1976 Quimby, Charles Marvin

  An Analysis of Factors Influencing Water Quality of a
  Highly Developed Recreational Lake. 82 pp.
- 1976 Skinner, Thomas H.

  Influence of Abert Squirrels on Nutrient Transfer
  Through Litterfall in a Southwestern Ponderosa Pine Forest.
- 1976 Harper, Ken Charles
  On the Biology of Salmo apache and its Management Implications.
- 1976 Leech, George Robert

  The Effects of Fertilization on Diameter Growth in Dense Stands of Ponderosa Pine in Arizona.
- 1976 Lovro, David A. (No thesis)
- 1976 McClain, John Rex
  Food Habits of Brook Trout in Relation to the Abundance
  of Diel Drift Invertebrates in the Little Colorado River.
- 1976 Publiese, Donald Luke
  Adoptive Races of Scotch Pine for Christmas Tree
  Plantations in Arizona.
- 1976 Schneider, Robert Warren
  The Effectiveness of Slide Presentations and Field Trips
  as Methods of Instruction for Environmental Education.
  135 pp.
- 1976 Smith, Charles (No thesis)
- 1976 Wells, Wade Glen, II

  A Sedimentation Model for Small Watersheds. 103 pp.
- 1976 Williams, Patrick Thomas
  Grass Production Changes with Mesquite Reinvasion in
  Southern Arizona. 37 pp.
- 1976 Winslow, Stephen Arthur
  The Relationship of Bottom Sediments to Bacterial Water
  Quality in a Recreational Swimming Area. 60 pp.

1976 Wraight, John Edward, Jr.
Factors Influencing Participation and Landowner
Preferences Under Use-Value Taxation. 181 pp.

1976 Kelly, Jerry Lee
Optimization of Runoff Agriculture on Reclaimed Mine
Lands. 87 pp.