

# James K. (Tex) Lewis Papers

## COLLECTION SUMMARY

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IDENTIFIER

UA 53.33

TITLE

James K. (Tex) Lewis Papers

DATES

1948-1995

PHYSICAL DESCRIPTION

29.94 linear feet [20 record boxes, 7 oversize boxes]

NAME OF CREATOR(S)

Lewis, James K.

LANGUAGE

English

REPOSITORY

South Dakota State University Archives and Special Collections

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ABSTRACT

James K. "Tex" Lewis was a professor of Animal and Range Sciences at South Dakota State University from 1950 to 1985. The collection comprises his work in teaching and research in range management and range livestock nutrition. It includes studies and projects conducted primarily at the Cottonwood Range Field Station, Antelope Range Field Station, and the Badlands region of South Dakota. The materials cover various topics such as cattle weights, clip plot data analysis, soil moisture samples, and utilization studies. They also demonstrate collaborative efforts with prominent organizations.

## BIOGRAPHICAL NOTE

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James K. "Tex" Lewis was born on October 24, 1924, in Waco, Texas. He obtained a Bachelor of Science in Animal Science from Colorado State University in 1948 and a Master of Science in Animal

Science from Montana State College in 1951. Lewis pursued graduate studies in range management at Texas A&M University.

Lewis assumed the role of professor of Animal Sciences at South Dakota State University, focusing on teaching and research in range management and range livestock nutrition. Lewis conducted grazing, supplementation, and range improvement studies at the Cottonwood Range Field Station and Antelope Range Field Station, including biometric analyses of grassland ecosystems. Recognitions include the Special Appreciation Award from the South Dakota Section of the Society for Range Management in 1975, the Trail Boss Award in 1980, and the Outstanding Achievement Award from the Society of Range Management in 1984.

James K. "Tex" Lewis retired from South Dakota State University in 1985, leaving behind a legacy in range management.

## CONTENTS NOTE

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This collection presents a comprehensive overview of James K. Lewis's studies and projects conducted at various field stations, including Cottonwood Range and Antelope Range field stations, as well as the Badlands of South Dakota. The primary focus is on range management, forage production, and utilization and cover a broad spectrum of topics, including cattle weights, clip plot data analysis, soil moisture samples, and utilization studies, reflecting extensive data collection over several years. The collection also highlights interactions with prominent organizations like the American Grassland Council and the American Society of Range Management, indicating collaborative efforts and regional projects. The material covers a diverse range of studies, projects, and course materials related to range management. These include aerial photographs, ecological grassland studies, tool calibration, and extensive field data collection. The breadth of topics covered underscores a holistic approach to understanding and preserving ecosystems within these regions.

## SUBJECT HEADINGS

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- Lewis, James K.
- Grazing
- Range management
- Range management – Study and teaching
- Rangelands
- South Dakota – Antelope Range Field Station
- South Dakota – Badlands National Park Region
- South Dakota – Cottonwood Range Field Station

## BIBLIOGRAPHY

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Effect of Flushing and Gonadotropin on Ovulation Rate of Yearling Ewes on Range  
South Dakota Sheep Field Day Research Reports, 1970

Lewis, James K.; Bush, Leon F.; Haferkamp, Marshall; Trevillyan, W.R.

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Effect of grazing intensity and range condition on hydrology of western South Dakota ranges  
Bulletin (South Dakota Agricultural Experiment Station); no 647  
Hanson, Clayton L.; Lewis, James K.; Kuhlman, Armine R.

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Effect of Lambing Ration on Survival and Weaning Weight of Range Lambs  
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Lewis, James K.; Trevillyan, W.R.  
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Grazing Studies at Antelope Range A Progress Report 1964-69  
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Intensity of grazing: its effect on livestock and forage production  
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Brookings, S.D.: Animal Husbandry Dept., Agricultural Experiment Station, South Dakota State  
College, 1956  
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South Dakota range: its nature and use  
Extension circular (South Dakota State University. Cooperative Extension Service: 605  
Lewis, James K.; Albee, Leslie R.; Howard, Paul L.  
Brookings, S.D.: Cooperative Extension Service, South Dakota State College, 1963  
Call number: 630.732 So87.17 no. 605

## ACCESS

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## CONTAINER LIST

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Box	Folder	Description	Date(s)
1	1	AgsM Genetic Variability Study	1960
1	2	Budget	1980-1988
1	3	Project 2216-217: Calf weights	1950-1958
1	4	Cattle Summary	1952-1959
1	5	Project 216: Clip Plot Data	1952-1953, 1955
1	6	Project 216: Clip Plot Data, Summary by Species	1956-1957
1	7	Clip Strips, Percent of weight Calculated, Production and Residue of Variant (Larson)	undated
1	8	Clipping Studies	1948
1	9	Computerized Steer Weights	1969-1970
1	10	Cottonwood Range Field Station - Correspondence	1953-1959
1	11	Cottonwood Range Field Station - Invitro Dry Matter Digestibility Thesis Continuation	1967
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1	13	Project 538-539: Cottonwood Range Field Station - Periodic Animal Weights	1969
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6	2	American Grassland Council	1962-1964
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6	4	Annual Report of Cooperative Regional Projects	1955
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6	6	Antelope Range Field Station: Proposed range improvements plots	1956
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6	8	Badlands Data: Calibration of Weight Estimates (Card No. 3) - Sage Creek Basin Range Studies	1965

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6	11	Badlands Data: Stand Write-ups (Card No. 2)	undated
6	12	Badlands Data: Stand Write-ups (Card No. 2)	undated
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6	14	Badlands Data: Vegetation Inventory (Card No.2) - Sage Creek Basin Range Studies	undated
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8	8	Project 216: Cottonwood Range Field Station: Nematicide and Fungicide Plots	1962-1964



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8	18	Cottonwood Range Field Station: Pasture 1-3 Height-weight data table	1959
8	19	Cottonwood Range Field Station: Progress reports	1966-1967
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8	21	Cottonwood Range Field Station: Research data - Permanent Enclosure Pastures	1957
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8	25	Cottonwood Range Field Station: Soil moisture	1972
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9	2	Course Material: AS 442 Range Management Planning	1962-1968
9	3	Course Material: RANG 200 - Practical Range Management	undated
9	4	Course Material: RANG 201 - Range Plant Identification	undated
9	5	Course Material: RANG 321 - Range Ecosystems	undated
9	6	Course Material: RANG 322 - Surveys Portion	undated
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9	8	Course Material: RANG 324 - Range Surveys	1985

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9	10	Course Material: RANG 472 - Field Experience in Range Management	undated
9	11	Course Material: WL 590-690: Analysis of a Selected Ecosystem - Grasslands	undated
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9	14	Data set - Resurveying stands, numerical order	1966
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9	16	Diet Study [1 of 2]	1967-1969
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9	19	District Economic Supplement Guidelines - Bure of Land Management	1960
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9	24	Fact Sheets on Rangeland Project	1968
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<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
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<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
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12	25	Capacitance Meter Data - Antelope Range [card #1]	1966
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12	28	Capacitance Meter Calibration Studies - Cottonwood and Antelope Ranges	1967
12	29	Capacitance Meter Plots - Cottonwood watershed	1965
12	30	Capacitance Meter Testing	undated
12	31	Carbohydrate reserves in Colorado range plants as affected by development and defoliation	1973
12	32	Cluster by Robert Smith, Ph.D. at Ecological Data Analysis	1978
12	33	Code for Capacitance Meter Records	1964
12	34	Colorado State University course outlines	1948 circa
12	35	Comparison of a 420 head cow-calf-yearling operation and a 500 head cow-calf-yearling operation on a feed requirement basis	undated
12	36	Cottonwood Range Field Station: Biometer calibration	1982-1983
12	37	Cottonwood Range Field Station: Budget Balance and Projections	1985-1986
12	38	Cottonwood Range Field Station: Clipped Data	1983-1984
12	39	Cottonwood Range Field Station: Daily temperatures	1910-1975
12	40	Cottonwood Range Field Station: Field weight sheets - Pasture 1-6 Steers	1984
12	41	Cottonwood Range Field Station: Notes	undated
13	1	Cottonwood Range Field Station: Nematicide Study Pasture 1	1984
13	2	Cottonwood Range Field Station: Nematicide Study Pasture 1 - ANPP	1984
13	3	Cottonwood Range Field Station: Nematicide Study Pasture 1 - ANPP	1984
13	4	Cottonwood Range Field Station: Nematicide Study Pasture 7 - ANPP	1984

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
13	5	Cottonwood Range Field Station: Profile scripts	1963
13	6	Cottonwood Range Field Station: Nematicide Study Pasture 1	1985
13	7	Cottonwood Range Field Station: Nematicide Study Pasture 7 - ANPP	1985
13	8	Cottonwood Range Field Station: Nematicide Study Pasture 7 - ANPP	1984
13	9	Cottonwood Range Field Station: Nematicide Study Pasture 7 - Plot 1-10	1984
13	10	Project 239: Cottonwood Range Field Station - Grazing Management Strategies to Increase Net Rance Income - Revision	undated
13	11	Project 239: Cottonwood Range Field Station - Grazing System Study	1981
13	12	Project 239: Cottonwood Range Field Station - Grazing System Study	1983
13	13	Project 239: Cottonwood Range Field Station - Grazing System Study - Mapping	1984
13	14	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 1	1984
13	15	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 1 C-3 use mapping estimates summer pastures	1983
13	16	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 1 Key Use	1985
13	17	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 2	1984
13	18	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 2 E-6 use mapping estimates summer pastures	1983
13	19	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 2 Key use	1985
13	20	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 3	1984
13	21	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 3 F-4 use mapping estimates summer pastures	1983
13	22	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 3 Key use	1985
13	23	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 4 D-10 use mapping estimates summer pastures	1983
13	24	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 4 Key use	1984
13	25	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 4 Key use	1985
13	26	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 4 Watershed	1985
13	27	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 5	1984

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
13	28	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 5 A-15 use mapping estimates summer pastures	1983
13	29	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 5 Key use	1985
13	30	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 5 Watershed	1985
13	31	Project 239: Cottonwood Range Field Station - Grazing System Study - Wt./Est [weight estimate]	1984
13	32	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 6	1984
13	33	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 6 Key use	1985
13	34	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 6 Watershed	1985
13	35	Project 239: Cottonwood Range Field Station - Grazing System Study - Pasture 6 B-21 use mapping estimates summer pastures	1983
13	36	Project 239: Cottonwood Range Field Station - Grazing System Study - Weight Test [Nematicide Utilization Estimates] [1 of 2]	1983
13	37	Project 239: Cottonwood Range Field Station - Grazing System Study - Weight Test [Nematicide Utilization Estimates] [2 of 2]	1983
14	1	Cottonwood Range Field Station: Runoff Data Set	1979-1985
14	2	Cottonwood Range Field Station: Runoff Data Set	1963-1978
14	3	Cottonwood Range Field Station: SDSU Research Day	1983
14	4	Cottonwood Range Field Station: Use map Pasture 2, 5, 6 - ABSM, BOBU, FORB, OG	1985
14	5	Cottonwood Range Field Station: Watershed Runoff Data and Solar Radiation	1963-1985
14	6	Course Material: Deferred Grazing Overlays	undated
14	7	Course Material: Grassland Ecosystems	undated
14	8	Course Material: Livestock Distribution	undated
14	9	Course Material: RANG 200 - Practical Range Management	1979
14	10	Course Material: RANG 200 - Practical Range Management	undated
14	11	Course Material: RANG 200 - Practical Range Management - Exams	1979-1991
14	12	Course Material: RANG 200 - Practical Range Management - Grasses, all plants lists	undated
14	13	Course Material: RANG 200 - Practical Range Management - Lab	1991
14	14	Course Material: RANG 200 - Practical Range Management - Lab exams	1980-1986
14	15	Course Material: RANG 200 - Practical Range Management - Lab exercises - Double sampling tech./Availability, production, and utilization	undated
14	16	Course Material: RANG 200 - Practical Range Management - Model for planning diagram	undated

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
14	17	Course Material: RANG 200 - Practical Range Management - Lab 5 Native forbs of SD Rangelands	1988
14	18	Course Material: RANG 200 - Practical Range Management - Lab 10 Native shrubs of SD Rangelands	undated
14	19	Course Material: RANG 321 - Parallelism in the development of soil survey and range site concepts	undated
14	20	Course Material: RANG 410/642 Grazing Management	1990
14	21	Course Material: RANG 411 Range Improvement	1976
14	22	Course Material: RANG 411 Range Improvement - Introduction, grazing systems, deferments	1980
14	23	Course Material: RANG 411 Field Studies in Range Management	1979 Summer
14	24	Course Material: RANG 411 Field Studies in Range Science	1982
14	25	Course Material: RANG 411 Range Methods [Analysis]	undated
14	26	Course Material: RANG 442 Range Management Planning Financial Summary	undated
14	27	Course Material: RANG 470 Bureau of Land Management	1979
14	28	Course Material: RANG 470 Range Management Planning on the Public Lands - Exams	undated
14	29	Course Material: RANG 470 Range Management Planning on the Public Lands - Forest Service	1982
14	30	Course Material: RANG 470 Range Management Planning on the Public Lands - Guest Lectures	1981
14	31	Course Material: RANG 470 Range Management Planning on the Public Lands - Lecture material	1977-1981
14	32	Course Material: RANG 470 Range Management Planning on the Public Lands - State of South Dakota	1980
14	33	Course Material: RANG 470 Range Management Planning on the Public Lands - Lab exercises	1979-1981
14	34	Course Material: RANG 470 Range Management Planning for Ranchers - exams	1979, undated
14	35	Course Material: Resr Rotation Overlays	undated
14	36	Data from Dickinson site	1973
14	37	Deferred Rotation Grazing Systems - What should and should not be expected from them	undated
14	38	Economics of ripping	1970s
14	39	fl/E Structures for database	1980-1986
14	40	Project 239: Grazing System Study	1983
14	41	Project 239: Grazing System Study	1983
14	42	Project 239: Grazing System Study	1983
15	1	Project 239: Grazing System Study	1983
15	2	Project 239: Grazing System Study	1983
15	3	Project 239: Grazing System Study	1983
15	4	Project 239: Grazing System Study	1983



<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
15	5	Great Plains Agricultural Council GP-6 Project - Seedling Establishment of Range Plants in the Great Plains	1958-1966
15	6	Great Plains Council GPC-12 Committee minutes	1983-1984, 1986
15	7	Great Plains Seeding Plans and records for grassed waterways, pasture plantings, range seedings, range interseeding, critical area	1963
15	8	Hardy, Lloyd Martin thesis data	1959-1965
15	9	Improved Grazing Management for the Mesic mix-grass prairie of SD Progress Report	1990
15	10	Integrated Pest Management on Rangeland	1987
15	11	International Faculty Exchange Interest Survey	1991
15	12	Inventory of IBP [International Biological Program	undated
15	13	John Dayle's theses - Bomb Calorimeter	1968
15	14	John Dayle's theses - Data	1968
15	15	Lab data sheets - hay, western wheat, other plants	1953-1954
15	16	Livestock, Grazing, and Roughage balance sheets - Soil Conservation Service	1976
15	17	Low-Impact/Sustainable Agriculture [LISA]	1988
15	18	Low-Impact/Sustainable Agriculture [LISA] proposal - Mixed species grazing	1989
15	19	Low-Impact/Sustainable Agriculture [LISA] proposal - Pre-prosal, cattle, sheep	1990
15	20	Project 216: Medicine Butte Relic Area - Permanent line transects	1966
15	21	Method for measuring trend in range condition on national forest ranges	1951
15	22	Michael G. Word lecture notes	1985
15	23	Nematicide Study	1983
15	24	Overhead transparencies	undated
15	25	Palm top computers	1992
15	26	Planning US Forest Service Rocky Mountain Region	1958, 1974, undated
16	1	Project 07-01-04: High Replicate I - Plots 1-10 - Field data sheets, grassland biome aboveground biomass	1971
16	2	Project 07-01-04: High Replicate I - Plots 1-10 - Field data sheets, grassland biome aboveground biomass	1971
16	3	Project 07-01-04: Low Replicate - Plots 1-10 - Field data sheets, grassland biome aboveground biomass	1971
16	4	Project 07-01-04: Low Replicate II - Plots 1-10 - Field data sheets, grassland biome aboveground biomass	1971
16	5	Project 07-01-04: High Replicate 1-6 - Plots 1-5 - Field data sheets	1971
16	6	Project 07-01-04: Low Replicate 1-6 - Plots 1-5 - Field data sheets	1971
16	7	Project 121 - Newell Station [Cottonwood]	1942-1946
16	8	Project 121 - Winter [Cottonwood]	1946-1948
16	9	Project 121 - Wintering, Summer Grazing of breeding for beef calf production - old records	1946-1947

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
16	10	Project 159 - Breeding report of old ewes	1948-1949
16	11	Project 159 - Rations for wintering bred range ewes [Newell]	1946-1947
16	12	Project 159 - Rations for wintering bred range ewes [Newell]	1947-1948
16	13	Project 159 - Wintering bred range ewes [1 of 2]	1959-1960
16	14	Project 159 - Wintering bred range ewes [2 of 2]	1959-1960
16	15	Project 159-161 - Antelope Range [Buffalo] Data - original weight records	1947-1948
16	16	Project 159-161 - Newell Summary - optimum level of feeding for the development of ewe lambs	1946-1947
16	17	Project 159-177 - Antelope - Lamb production data code sheet	1952-1962
16	18	Project 161 - Antelope - optimum level of feeding for the development of ewe lambs	1946-1947
16	19	Project 161 - Original lotting data [Cottonwood]	1948
16	20	Project 161 - Original weight sheet and lot for ewe experiments [Cottonwood]	1947-194
16	21	Project 161 - Progeny records [Cottonwood]	1948-1949
16	22	Project 161 - Range ewe experiment [Cottonwood]	1945-1946
16	23	Project 161 - Winter - 2nd group [Cottonwood]	1947-1948
16	24	Project 161 - Winter - 1st group [Cottonwood]	1946-1948
16	25	Project 177 - Antelope Range - Breeding ewes - correspondence and data	1947-1950
16	26	Project 216 - Capacitance Meter Data	1965
16	27	Project 216 - Forage Production Studies [Cottonwood]	1955
16	28	Project 216 - Herbage weight	1957
16	29	Project 216 - Herbage weight	1957
17	1	Project 216: Lab A-4482 to A-4590 - Grass and grazed clay	1956-1957
17	2	Project 216: Lab A-6255 to A-6380 - Stage of Maturity clipped	1955
17	3	Project 216: Lab A-6382 to A-9557 - Stage of Maturity clipped	1958
17	4	Project 216: Pasture data	1952-1955
17	5	Project 421: Antelope Range Field Station - Range Forage Production and Utilization Studies - Sheep, weight estimates by plot	1966
17	6	Project 421: Antelope Range Field Station - Code for Lambing Records	1962-1963
17	7	Project 421: Antelope Range Field Station - Periodic Animal Weights	1967
17	8	Range and Livestock Management Committee	1966-1969
17	9	Range Ecosystems	1968
17	10	Range Judging Budget	1991-1992
17	11	Range labs weights - Buffalo	1946-1947
17	12	Range Plant Spelling Bee	1987
17	13	Range Plant Task Force of the Great Plains Agriculture Council	1989-1993
17	14	Range Science Education Council	1990-1992
17	15	Range Teaching Budget	1992
17	16	Range Youth Activities - mailing list	1989

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
17	17	Regulations for implementing the procedural provisions of the NEPA [National Environment Policy Act] - Appendix E	undated
17	18	SDSU Graduate Student Workload Policy	1989-1992
17	19	SDSU Range Club	1988-1992
17	20	SDSU Range Science curriculum changes	1979-1981
17	21	Simulation of Production and Utilization on Rangelands [SPUR] notes	1985-1986
17	22	Society for Range Management	1990-1992
17	23	Society for Range Management - awards	1991
17	24	Soil Survey Interpretations	1972-1976
17	25	Soil Survey Series	1975-1976
17	26	Soil Survey Series [1 of 4]	1976
17	27	Soil Survey Series [2 of 4]	1976
17	28	Soil Survey Series [3 of 4]	1976
17	29	Soil Survey Series [4 of 4]	1976
17	30	South Dakota Engineering Standard	1973-1974
17	31	South Dakota Issues - Jim Johnson	1988
17	32	South Dakota Range Research Summaries	1960
17	33	Soils - Established series - revised drafts	1974-1976
17	34	Soils - Proposed series - Initial review draft	1974-1976
18	1	AUM Calculation for Cow Project 700	1981-1982
18	2	Badlands - Basic Natural Resources	1969
18	3	Badlands Climatology	1969
18	4	Badlands - Description of Mammalian and Bird Ecology	1969
18	5	Badlands - Enclosure 1 to 8 Photographs	1960s
18	6	Badlands - Exhibit cards with scientific names of plants	1960s
18	7	Badlands - Geology	1960s
18	8	Badlands - Handwritten Notes	1960s
18	9	Badlands - Literature Review	1960s
18	10	Badlands - Paleontology	1969
18	11	Badlands - Sage Creek Basin Range Studies gradients Classified in Tentative Range Soil Groups	1965
18	12	Badlands - Sage Creek Basin Range Studies Machine Records Code	1960s
18	13	Badlands - Sage Creek Basin Range Studies Procedures	1960s
18	14	Badlands - Study Plan for Range Livestock Investigation in Sage Breek Basin Area	1965
18	15	Badlands - Sage Creek Basin Range Studies Tentative Range Soil Groups	1965
18	16	Badlands Soils	1960s
18	17	Badlands Vegetation	1960s
18	18	Badlands Water Resources	1960s
18	19	Biometer - Usage of	1982
18	20	CHAPS Yearling Appraisal Performance Software Manual	1989

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
18	21	Computer Program Descriptions	1960s
18	22	Computer Sheet Codes	undated
18	23	Cottonwood Range Field Station Maps and Overlay	1969, 1982, undated
18	24	Cottonwood Range Field Station - Russian Wild Rye Use Map	1983
18	25	Cottonwood Range Field Station - Use mapping	1983-1984
18	26	Cottonwood Range Field Station - Weather Data	1956-1972
18	27	Cottonwood Range Field Station - Weather Records	1961-1966
18	28	Course Material: AS 442 Range Management Planning - Financial Summary	undated
18	29	Course Material: RANG 200 Practical Range Management - Ecosystem concept (importance of in range management)	undated
18	30	Course Material: RANG 200 Practical Range Management - Exams	1979-1980
18	31	Course Material: RANG 200 Practical Range Management - Lab	undated
18	32	Course Material: RANG 300 Principles of Range Management	1978
18	33	Course Material: RANG 411 Range Improvement	1984
18	34	Digitizing Table at Remote Sensing Institute	undated
18	35	Grazing Land Applications Tutorial Material prepares by Texas A&M University	1990
18	36	Heifer Weights - Wild Rye	1983
18	37	HPSD Weigh Days	undated
18	38	Lew Bieger Data - Water intake by animals	1982
18	39	Management Objectives Handbook	1977
18	40	Monthly Summarized Station and Division Data	1983-1985
18	41	Nematicide BNPP	1982-1984
18	42	Nematicide Grazing Schedules	1984
18	43	Nematicide Pasture Use History	1983
18	44	Neutron Probe Completed Data Sheets	1978-1985
18	45	Pilot Study for Quadrat Sorting Method	1981
18	46	Photographs, Negatives, Slides	undated
18	47	Photographs: Aerial View of Headquarters Building at Cottonwood Range Field Station	undated
18	48	Photographs: Antelope Range Field Station - ewes and equipment	1952-1953
18	49	Photographs: Antelope Range Field Station	undated
19	1	Photographs: Cottonwood Range Field Station	1955-1959
19	2	Photographs: Cottonwood Range Field Station	undated
19	3	Photographs: Cottonwood Range Field Station - Aerial	1959
19	4	Photographs: Cottonwood Range Field Station - Cattle	1960
19	5	Photographs: Cottonwood Range Field Station - Cows	undated
19	6	Photographs: Cottonwood Range Field Station - Cows	1949
19	7	Photographs: Cottonwood Range Field Station - Heifers on pasture	1953
19	8	Photographs: Cottonwood Range Field Station - June clippings, deceased cow	1952

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
19	9	Photographs: Cottonwood Range Field Station - Plots, calves, light grazing scene, Badlands	undated
19	10	Photographs: Cottonwood Range Field Station - Steers, cows	undated
19	11	Photographs: Extreme sheet erosion	undated
19	12	Photographs: Guge and Buda comparisons	undated
19	13	Photographs: Lambs	1965
19	14	Photographs: Medicine Butte	1954-1962
19	15	Photographs: North Dakota, Big Top Mesa	1956
19	16	Photographs: Range Cattle	1952
19	17	Photographs: Range tour at Altamont Prairie	1964
19	18	Precipitation Data: South Dakota, Montana, Wyoming, Nebraska, North Dakota	1899-1961
19	19	Cottonwood Range Field Station: Probe Soil moistures	1984
19	20	Project 159: Summary of Data	1959
19	21	Project 159 and 177: Ewe Production Data	1951-1952, 1961-1962
19	22	Project 161: Photographs	1952-1953
19	23	Photographs: Antelope Range	undated
19	24	Project 216: Cottonwood Range Field Station - Temperature data	1961
19	25	Project 216: Cottonwood Range Field Station - Field Quotes	1952-1967
19	26	Project 216: Cottonwood Range Field Station - Precipitation data	1909-1961
19	27	Project 239: BOGR Cumulative Effect of Grazing System Date of Emergence and Leaf measures	1982
19	28	Project 239: Grazing System Study - Calibration 2s for R2s	1981
19	29	Project 239: Grazing System Study - IBP Plots	1981
19	30	Project 239: Grazing System Study - Key Use inside cages	1981
19	31	Project 239: Grazing System Study - Key Use areas plot established	1981
19	32	Project 239: Grazing System Study - Recon estimate and use map S1-S6/C1-C6	1982
19	33	Project 239: Grazing System Study - Recon data - est. and calibration at Cottonwood Range Field Station	1981
19	34	Project 239: Grazing System Study - Recon data -Savoy est.	1981
19	35	Range Forage Production and Utilization Studies - Height-Weight Utilization by major species	1983
19	36	Range Forage Production and Utilization Studies - Height-Weight Utilization by major species	1984
19	37	Range Condition, animal weights-averages	1984
19	38	Range Management Graduates Questionnaire	1975
19	39	Range Management Manuals	1966
19	40	Range Plants Literature Review	1950-1955
19	41	Root Washer Research - Hydropneumatic Elutriation System	1981
19	42	SDSU Class Trips	1980-1984
20	1	Slides: Rolls 1-10	1972

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
20	2	Slides: Rolls 11-20	1972
20	3	Slides: Rolls 21-30	1972
20	4	Slides: Rolls 31-40	1972
20	5	Slides: Rolls 41-50	1972
20	6	Slides: Rolls 51-59	1972
20	7	Slides: Rolls 60-66	1972
20	8	Slides: AGSM (L) 1-143	undated
20	9	Slides: AGSM (19) 1-143	undated
20	10	Slides: BOGR (L) 1-143	undated
20	11	Slides: BUDA (L) 1-143	undated
20	12	Slides: BUDA (19) 1-143	undated
20	13	Slides: Soil 12-140	undated
20	14	Slides: 3IR Plot 3 and 4 1-20	undated
20	15	Slides: 5IR-1 to 5IR-22	undated
20	16	Slides: 24 July CO 1-1 to 1-23 / 2-1 to 2-258	undated
20	17	Slides: Copies made A1 to O1	undated
20	18	Slides: Light diffusion July 6, 1972 - Conti Flax	1972
20	19	Slides: Nikon Mat N1 to N20	1972
20	20	Slides: Untitled	undated
20	21	Society for Range Management Trail Boss newsletter	1989-1992
20	22	Soil Conservation Service Grassland Management newsletter	1990-1992
20	23	Soil Moisture Data	1983
20	24	Soil Moisture Pans weights	1983
20	25	Soil Water Probe (Runoff study)	1983
20	26	Soils - Tentative series - Initial review draft	1973-1976
20	27	SPUR Article: Cottonwood gets its' SPUR	undated
20	28	State County Maps	undated
20	29	Steer Records	1983
20	30	Steve W. - Cottonwood Range Field Station data	1986
20	31	Student inquiries about graduate program	1991
20	32	Study of fees for grazing livestock on federal lands	1977
20	33	Study of fees for grazing livestock on federal lands report	1977
20	34	Summarized climatological data - South Dakota	1976-1982
20	35	Summer jobs and internships	1990
20	36	Surface land daily cooperative summary of the day TD-3200	1986
20	37	System's approach to range beef production	1974
21	1	AGSM Study Data Set, Greenhouse	1963
21	2	Antelope Range Data Set - Ewe and Lamb Production Data	1962-1966
21	3	Bahaigrass/Smutgrass Management Data Set	1977
21	4	Bahaigrass/Smutgrass Management 1 Data Set	1977
21	5	Biometer Data Set	1970s
21	6	Biometer Data Set	1976
21	7	Biometer Data Set	1977

<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
22	1	Cottonwood Data Set - Aboveground Biomass data, original data, final output, prediction errors, regressions statistics, replicate statistics	1972
22	2	Cottonwood Data Set - Aboveground Biomass data, original data, final output, prediction errors, regressions statistics, replicate statistics	1972
22	3	Cottonwood Data Set - Aboveground Biomass data, original data, final output, prediction errors, regressions statistics, replicate statistics	1972
22	4	Cottonwood Data Set - Aboveground Biomass data, original data, final output, prediction errors, regressions statistics, replicate statistics	1972
22	5	Cottonwood Data Set - Aboveground Biomass data, original data, final output, prediction errors, regressions statistics, replicate statistics	1972
22	6	Cottonwood Data Set - AGHB converted quadrat data	1972
22	7	Cottonwood Data Set - AGHB corrections of original data	1972, 1974
22	8	Cottonwood Data Set - AGH Data set 1	1974
22	9	Cottonwood Data Set - AGH Data set 3	1970, 1975
22	10	Cottonwood Data Set - Analysis of variance - Hens	1978
22	11	Cottonwood Data Set - Analysis of variance - Hens	1984
22	12	Cottonwood Data Set - Analysis of variance Period 2	1982
22	13	Cottonwood Data Set - Analysis of variance Period 7	1980s
22	14	Cottonwood Data Set - Analysis of variance Period 10-14	1980s
23	1	Cottonwood Data Set - Frequency Values	undated
23	2	Cottonwood Data Set - Grain and M & BM Study for BW at 25 and 49 weeks, analysis of variance procedure	1985
23	3	Cottonwood Data Set - Liver and Plasma Cu	1985
23	4	Cottonwood Data Set - Gravimetric Soil Water	1970
23	5	Cottonwood Data Set - Gravimetric Soil Water	1971
23	6	Cottonwood Data Set - Gravimetric Soil Water	1972
23	7	Cottonwood Data Set - Input of litter	1972
23	8	Cottonwood Data Set - Litter from AGH	1972
23	9	Cottonwood Data Set - Miscellaneous data (unable to identify)	1969
23	10	Cottonwood Data Set - Percent Bone Ash Determination or Turkey Tibia fed colostrum	1985
23	11	Cottonwood Data Set - Plasma amino acids contents of layers on various grains and M & BM	1975
23	12	Cottonwood Data Set - Plasma amino acids of Experiment 1 and 2	1985
24	1	Cottonwood Data Set - Poultry	1985
24	2	Cottonwood Data Set - Pullet experiment with Prot feeding and Corn vs. Corn-Oats	1985
24	3	Cottonwood Data Set - Soybean meal, sunflower meal, or canola meal for layers	1985

Box	Folder	Description	Date(s)
24	4	Cottonwood Data Set - Status of Data as of 30 August	1974
24	5	Cottonwood Data Set - Tape allocation Map - weather, animal, and climate file for SPUR	1986
24	6	Cottonwood Data Set - Weather data	1986
24	7	Criterion Variable Pub Data Set	1980
24	8	Criterion Variable Format Data Set	1980
24	9	Data Set - All Species Treatment	1971-1972
24	10	Data Set - Animal Weight	1978 August
24	11	Data Set - Ewes and Lambs	1983
24	12	Data Set - Miscellaneous (unable to identify)	1983
25	1	Data Set - Grain	1978-1983
25	2	Data Set - HFR WGTS (Heifer weights ?)	1982-1983
25	3	Data Set - Ht./Wt. Summary	1979-1983
25	4	Data Set - ANSON (John Hanson ?) - code	1986
25	5	Data Set - Neutron Probe	1978-1983
25	6	Data Set - Observations	1980-1984
25	7	Data Set - Root weight	1983-1985
25	8	Data Set - Shear Test	1995
25	9	Data Set - SoDTMP (1978-1984), RELHU (1971-1984)	1971-1984
25	10	Data Set - Soil Water Nematicide Plots	1982-1983
25	11	Data Set - Soil Moisture	1978-1983
25	12	Data Set - Str Weight	1979-1983
25	13	Data Set - Temperature Experiment	1979
25	14	Data Set - Weather	1978-1983
25	15	Data Set - WINDRN (Wind Rain ?)	1969-1985
25	16	Data Set - Original PANVALET Listings	1986
25	17	Data Set - Project 216: Forage Production Studies	1952-1953
26	1	GENPAR - Sample data - weather MDX, max temp, min temp, precipitation	1986
26	2	GENPAR Data	1986
26	3	GENPAR Data	1986
26	4	Hardy's Thesis	1966
26	5	Kammerer Ripping	1977
26	6	Kammerer Ripping	1977
26	7	KGEN Weather generation	1986
26	8	Missing Data Listing	1986
26	9	SPUR - Original Compilation data set	1986
26	10	SPUR - Program - SPUR temp	1971, 1984, 1986
27	1	SPUR Field Scale Test - Simulated Values, Pawnee Site	1986
27	2	SPUR - Final Code	1986
27	3	SPUR I Data Set	1985
27	4	SPUR Data Set	1986



<b>Box</b>	<b>Folder</b>	<b>Description</b>	<b>Date(s)</b>
27	5	SPUR Tape Map	1986
27	6	SPUR Field Scale Test - Simulated Values, Pawnee Site	1971
27	7	Weather Data Set	1986
27	8	Weather Data Set	1986
27	9	Weather - Max Temp, Min temp, Observation, Day	1986