

Exhibit 2

CONSTITUTION AND BY-LAWS  
RANGE MANAGEMENT EDUCATION COUNCIL  
(Rev. Feb. 13, 1963)

ARTICLE I. Name. The name of this organization shall be "Range Management Education Council."

ARTICLE II. Objectives. To promote high standards in the teaching of range management, to advance the professional ability of range managers, to provide a medium for the exchange of ideas and facts among range management schools, to provide liaison between teaching departments and organizations and agencies in affairs relating to range education and employment standards, and in other ways to foster wider understanding of the problems of range education.

ARTICLE III. Membership (Revised February 13, 1963). Each university or college offering courses in range management may be represented by one delegate. A delegate will have voting privileges if his institution offers a baccalaureate degree which meets the minimum requirements prescribed by the Council. Eligibility of institutions for representation and membership status will be determined by the Council. Each delegate will be a member of the instructional staff in range management and will be the permanent delegate from his institution. A permanent delegate may authorize another member of the instructional staff in range management to act in his place for any given meeting.

Delegates having voting privileges will be recognized as Members. All other delegates will be recognized as Associate Members. Associate Members may take part in all discussions, may initiate motions but may not vote on Council business matters or hold office.

ARTICLE IV. Officers

Section 1. Officers of the Council shall consist of a chairman, vice-chairman, and secretary.

Section 2. The council shall have a governing body known as the executive committee, which shall be composed of the officers.

Section 3. The term of office of chairman, vice-chairman and secretary shall be one year, beginning immediately after the annual meeting.

Section 4. Vacancies in any unexpired term of office shall be filled from among the council members by the remaining members of the executive committee.

Section 5. Two members of the governing body shall constitute a quorum.

ARTICLE V. Nomination and election of officers.

Section 1. The secretary shall be elected at the annual meeting.

Section 2. Candidates for the office of secretary shall be nominated from the floor.

Section 3. The candidate receiving the largest number of votes shall be declared the winner. In the case of a tie vote between the two candidates receiving the most votes, the winner will be determined by these two candidates drawing lots.

Section 4. The elected secretary will move successively to vice-chairman and to chairman at the expiration of his term in each office.

ARTICLE VI. Meetings. At least one meeting will be scheduled each year in conjunction with the annual meeting of the American Society of Range Management. Additional meetings may be called by the executive committee with the approval of a simple majority of the delegates, as determined by mail ballot. More than half the delegates must be present at a meeting to constitute a quorum. It shall be the policy of the Council to encourage attendance and participation in discussions by all interested persons.

ARTICLE VII. Amendments. Amendments may be proposed at any annual meeting of the council. A two-thirds voted shall be required for amendment.

BY-LAWS

ARTICLE I. Management of the Council.

Section 1. The chairman shall have general supervision of the affairs of the council. He shall appoint necessary committees and preside at meetings of the council and executive committee. In the absence of the chairman, the vice-chairman shall discharge the duties of the chairman.

Section 2. Committees shall be accountable to the executive committee under the general supervision of the chairman.

Section 3. No dues will be assessed for membership in this council.

## Exhibit 3

### EDUCATIONAL STANDARDS FOR RANGE MANAGEMENT

(Adopted February 7, 1972 by the Range Science Education Council)

#### Purpose

The purpose of this statement is to provide guidelines and goals for formal education in the science of range management. It should be useful in (a) developing curricula, (b) evaluating degree programs, and (c) identifying competence in the profession by potential employers.

#### General Areas of Education

Range management education includes a broad background in the biological, agricultural, physical and social sciences. A range manager is an individual who is capable of developing and executing range management programs based upon scientific principles. The beginning professional must have an understanding of the interactions and interdependence of natural resources and must be oriented to the concepts of land resource management. Range management draws upon many other disciplines: animal science, ecology, economics, agronomy, soils, statistics, plant physiology, etc. Thus, the range professional must acquire a broad education in order to integrate the knowledge of a variety of specialized fields. He must also be able to clearly express himself orally and in writing.

#### Educational Standards

We view the formal education appropriate to the bachelors degree in Range Science or Management as a minimum suitable base for the beginning professional. Beyond the beginning professional level, various levels of competence are required in the field of range management. Job experience, in-service training and formal education beyond the bachelors degree will be needed in more advanced professional positions, whether they be in research education or management.

#### Educational Requirements for the B.S. Degree in Range Management

To start with a sound educational base, the beginning range resource manager should have successfully completed a course of study in a college or university leading to a bachelor's or higher degree. The following courses (or their equivalents) are considered minimum requirements:

- (1) Courses in range science and related resources management.

These must include at least:

- (a) Sixteen semester hours of range subjects to include four of the following subject matter areas:

- (1) range plants, (2) range ecology, (3) range resource inventory and analysis, (4) principles of range management, (5) range improvement, and (6) range or ranch operations and planning.

- (b) Six semester hours of course work in natural resource fields to include at least two of the following:

- (1) wildlife, (2) watershed, (3) forestry, and (4) outdoor recreation.

- (c) Six semester hours in animal science with at least one course in animal nutrition.

- (d) Six semester hours in soil science or soil-geology.

- (e) Six semester hours in economics to include agricultural or resource economics.

- (2) Biological sciences (16 semester hours). Biological science courses should include the following subjects: basic botany, plant taxonomy, plant ecology, plant physiology and zoology.

- (3) Physical sciences (12 semester hours). Courses in mathematics and physical science to include at least:

- (a) Mathematics to include algebra.

- (b) Chemistry to include organic or biochemistry.

- (c) One course in statistics or computer science.

- (4) Humanities and social sciences. At least three courses in subject areas such as public relations, personnel management, psychology and sociology are suggested.

- (5) Communications. Should include at least:

- (a) A course in oral communication.

- (b) A course in written communication.

## OFFICE OF PERSONNEL MANAGEMENT

Range Conservation Series, GS-454;  
Establishment of Prescribed Minimum  
Educational Requirements

**AGENCY:** U.S. Office of Personnel  
Management.

**ACTION:** Notice.

**SUMMARY:** The Office of Personnel Management has revised the prescribed minimum educational requirement for range conservationists and range scientists employed within the Federal service. Range Conservation is a professional occupation and the revised requirement will facilitate the procurement of qualified candidates for range conservationist and range scientist positions in the Federal service. The minimum educational requirement for this occupation was last revised in 1966.

**EFFECTIVE DATE:** June 10, 1980.

**FOR FURTHER INFORMATION CONTACT:**  
Donald G. Brauer, Chief, Engineering  
and Science Occupations Branch,  
Standards Development Center, Staffing  
Services Group, U.S. Office of Personnel  
Management, 1900 E Street, N.W.,  
Washington, D.C. 20415, 202-632-5612.

**SUPPLEMENTARY INFORMATION:** In accordance with Section 3308 of Title 5, United States Code, the Office of Personnel Management has established a prescribed minimum educational requirement for range conservationists and range scientists employed within the Federal service. The requirement, the duties of the positions, and the reasons for the Office of Personnel Management's decision that the requirement is necessary are set forth below:

The Range Conservation Series, GS-454, GS-5 through GS-15

### Minimum Educational Requirement

1. Candidates for Range Conservationist positions must demonstrate successful completion of the requirements in paragraph A or paragraph B below:

A. A full 4-year or longer course of study in an accredited college or university leading to a bachelor's or higher degree with major study in range management or a directly related subject-matter field. This course of study must have included a total of at least 42 semester hours in a combination of the plant, animal, and soil sciences

and natural resources management and must be diversified as follows:

- Range Management Candidates must have completed at least 18 semester hours of course work in range management. Acceptable course work includes, but is not limited to, courses in such areas as basic principles of range management; range plants; range ecology; range inventories and studies; range improvements; and range or rangeland planning.
- Directly Related Plant, Animal and Soil Sciences Candidates must have completed at least 15 semester hours of directly related course work in the plant, animal and soil sciences. This course work must have included at least one course in each of these three scientific areas, i.e., plant, animal and soil sciences. Acceptable course work includes, but is not limited to, courses in such areas as plant taxonomy; plant physiology; plant ecology; animal nutrition; livestock production; and soil morphology or soil classification.
- Related Resource Management Studies Candidates must have completed at least 9 semester hours of course work in related resource management subjects. Acceptable course work includes, but is not limited to, courses in such areas as wildlife management, watershed management, natural resource or agricultural economics; forestry; agronomy; forages; and outdoor recreation management.

B. A total of at least 42 semester hours of course work in an accredited college or university in a combination of the plant, animal and soil sciences and natural resources management. The requirements for diversification of these 42 semester hours are the same as specified in paragraph A, above. In addition to these requirements, candidates must have additional education and/or experience which, when combined with the 42 semester hours of course work, will total 4 years of education or 4 years of combined education and experience.

The quality of such additional education or experience must have been sufficient to give the candidate professional and scientific knowledge equivalent to that normally acquired through the successful completion of a full 4-year course of study as described in A above. In combining undergraduate education with experience, an academic year of study which comprises 30 semester hours or 45 quarter hours will be considered equivalent to 9 months of experience.

2. Candidates for Range Scientist positions must have successfully completed the full 4-year course of study described in paragraph A above.

**Duties**—Range Conservationists perform professional work concerned with inventoring, analyzing, improving,

protecting, utilizing, and managing the natural resources of rangelands and related grazing lands; regulating grazing on public rangelands; developing cooperative relationships with range users and other groups; assisting private and Indian landowners to plan and apply range conservation programs on the rangelands under their controls; and developing technical standards and specifications for range conservation and management.

Range Scientists carry out basic and applied research to discover principles underlying range conservation activities and to develop new or improved practices, techniques, or equipment for range conservation work.

**Reasons for Establishing Requirements.**—A thorough knowledge of the principles, concepts, techniques, and practices of range management and of the underlying scientific concepts is essential for performing the work of range conservationist or range scientist positions. The only method by which the necessary knowledge and training may be acquired is through a directed course of study in an accredited college or university where competent instruction and guidance are available; where there are adequate scientific libraries, laboratories, and facilities for field study; where the course work is arranged in a systematic, progressive schedule; and where progress in the acquisition of professional and scientific knowledge and skill may be competently evaluated.

The revision in the minimum educational requirement increases the required course work in the plant, animal and soil sciences and natural resources management. This revision reflects increased demands on range conservationists and range scientists resulting from such factors as the deterioration and need for improvements of public rangelands; the growing concern for the environment; and the current emphasis on the multiple uses of rangelands.

Office of Personnel Management,  
Kathryn Anderson Felzer,

Assistant Issuance System Manager.

[FR Doc 80-17479 Filed 6-4-80 8:45 am]

BILLING CODE 5325-01-M

## RANGE SCIENCE EDUCATION COUNCIL

Revised February 1988

## CONSTITUTION

ARTICLE I. Name. The name of this organization shall be "Range Science Education Council."

ARTICLE II. Incorporation.

Section 1. The Council shall be incorporated as a non-profit corporation in the State of Colorado.

Section 2. The Council hereby indemnifies and holds harmless its officers, former officers, members, and any other participants against actual expenses and costs (including attorney's fees) incurred as a result of any claim against them by reason of carrying out their responsibilities for the Council except for the cases of negligence or misconduct.

ARTICLE III. Objectives. To promote high standards in the teaching of range management, to advance the professional ability of range managers and scientists, to provide a medium for the exchange of ideas and facts among range management schools, to provide liaison between teaching departments and organizations and agencies in affairs relating to range education and employment standards, and in other ways to foster wider understanding of the problems of range education.

ARTICLE IV. Membership. Each university or college offering courses in range management may be represented by one delegate. A delegate may have voting privileges if dues are current. Eligibility of institutions for representation and membership status will be determined by the Council. Each delegate will be a member of the instructional staff in range management. The voting delegates present at each meeting shall comprise the governing body of the Council and constitute a quorum of the Council.

ARTICLE V. Officers.

Section 1. Officers of the Council shall consist of a chair, vice chair, and secretary and shall constitute the Executive Committee.

Section 2. The Executive Committee shall be empowered to act in behalf of the Council between meetings with their actions to be ratified or rejected at the next meeting of the Council.

Section 3. The term of office of chair, vice chair, and secretary shall be one year, beginning immediately after the annual meeting.

Section 4. Vacancies in any unexpired term of office shall be filled from among the Council members by the remaining members of the Executive Committee.

Section 5. The three members of the Executive Committee shall constitute a quorum.

ARTICLE VI. Appointments. The treasurer and historian will be appointed by the Executive Committee for a four year term. Reappointment for a second term will be subject to ratification by a majority vote of the governing body.

ARTICLE VII. Nomination and Election of Officers.

Section 1. The secretary shall be elected at the annual meeting.

Section 2. Candidates for the office of secretary shall be nominated from the floor.

Section 3. The candidate receiving the largest number of votes shall be declared the winner. In the case of a tie vote between the two candidates receiving the most votes, the winner will be determined by these two candidates drawing lots.

Section 4. The elected secretary will move successively to vice chair and to chair at the expiration of his term in each office.

ARTICLE VIII. Meetings. At least one meeting will be scheduled each year in conjunction with the annual meeting of the Society for Range Management. Additional meetings may be called by the Executive Committee with the approval of a simple majority of the delegates, as determined by mail ballot. One-third of the member institutions must be present at a meeting to constitute a quorum. It shall be the policy of the Council to encourage attendance and participation in discussion by all interested persons.

ARTICLE IX. Dues.

Section 1. Council dues will be assessed to each institution affiliated with the Council. Dues will be paid to the Council at the time of membership renewal. The amount of dues shall be proposed by the Executive Committee and ratified by two-thirds (2/3) of the voting membership present at the annual Council meeting.

ARTICLE X. Amendments.

Amendments may be proposed at any annual meeting of the Council. A two-thirds vote of the membership present at the annual Council meeting shall be required for amendment.

## BY-LAWS

ARTICLE I. Management of the Council

Section 1. The chair shall have general supervision of the affairs of the Council. The chair shall appoint necessary committees and preside at meetings of the Council and Executive Committee. In the absence of the chair, the vice chair shall discharge the duties of the chair. The vice chair is responsible for the annual program.

Section 2. Committees shall be accountable to the Executive Committee under the general supervision of the chair.

Section 3. The chair shall appoint Council members to the Undergraduate Teaching Awards Committee at the annual meeting.

2-13-96

EXHIBIT 6

**BASIC REQUIREMENTS**

Rangeland Mgt. Specialist  
(formerly Range Conservationist)

Address:  
USDA-NRCS

Spec. Examining Unit  
PO Box 37636  
Washington, DC 20013  
202-720-2631

Attn: Barbara Smith

A degree in Range Management; or a closely related discipline which includes at least 42 semester hours in a combination of plant, animal, soil sciences and natural resources		
CREDITS	TYPES OF COURSES	EXPERIENCE
18 Semester hours in Range Management	Range Management (R1WM 3304) Range Plants (R1WM 3301/3202) Range Ecology (R1WM 4304) Range Inventories and Studies (R1WM 3201) Range Improvement (R1WM 4302) Ranch or Rangeland Planning (R1WM 4303)	BS Degree
15 Semester hours in directly related plant, animal and soil sciences (1 course in each area)	Plant Taxonomy Plant Physiology Plant Ecology (R1WM 3302) Animal Nutrition Livestock Production (not swine or horses) Soil Morphology or Soil Classification	BS Degree
9 Semester hours related resources management subject (all upper division courses, not introductory courses)	Wildlife Management Watershed Management Natural Resource or Agricultural Economics Forestry, Agronomy, Forages and Outdoor Recreation Management	BS Degree

A combination of education and experience involves:  
42 Semester hours of course work in a combination of plant, animal, soil sciences and natural resources  
... additional education equivalent to a four year degree

EXHIBIT 7  
RANGE SCIENCE EDUCATION COUNCIL  
Revised February 1997

CONSTITUTION

ARTICLE I. Name. The name of this organization shall be "Range Science Education Council."

ARTICLE II. Incorporation.

Section 1. The Council shall be incorporated as a non-profit corporation in the State of Colorado.

Section 2. The Council hereby indemnifies and holds harmless its officers, former officers, members, and any other participants against actual expenses and costs (including attorney's fees) incurred as a result of any claim against them by reason of carrying out their responsibilities for the Council except for the cases of negligence or misconduct.

ARTICLE III. Objectives. To promote high standards in the teaching of range management, to advance the professional ability of range managers and scientists, to provide a medium for the exchange of ideas and facts among range management schools, to provide liaison between teaching departments and organizations and agencies in affairs relating to range education and employment standards, and in other ways to foster wider understanding of the problems of range education.

ARTICLE IV. Membership. Each university or college offering courses in range management may be represented by one delegate. A delegate may have voting privileges if dues are current. Eligibility of institutions for representation and membership status will be determined by the Council. Each delegate will be a member of the instructional staff in range management. The voting delegates present in each meeting shall comprise the governing body of the Council and constitute a quorum of the Council.

ARTICLE V. Officers.

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Section 3. The term of office of president, vice president, and secretary shall be one year, beginning immediately after the annual meeting.

Section 4. Vacancies in any unexpired term of office shall be filled from among the Council members by the remaining members of the Executive Committee.

Section 5. The three members of the Executive Committee shall constitute a quorum.

ARTICLE VI. Appointments. The treasurer and historian will be appointed by the Executive Committee for a four year term. Reappointment for a second term will be subject to ratification by a majority vote of the governing body.

ARTICLE VII. Nomination and Election of Officers.

Section 1. The secretary shall be elected at the annual meeting.

Section 2. Candidates for the office of secretary shall be nominated from the floor.

Section 3. The candidate receiving the largest number of votes shall be declared the winner. In the case of a tie vote between the two candidates receiving the most votes, the winner will be determined by these two candidates drawing lots.

Section 4. The elected secretary will move successively to vice president and to president at the expiration of his term in each office.

ARTICLE VIII. Meetings. At least one meeting will be scheduled each year in conjunction with the annual meeting of the Society for Range Management. Additional meetings may be called by the Executive Committee with the approval of a simple majority of the delegates, as determined by mail ballot. One-third of the member institutions must be present at a meeting to constitute a quorum. It shall be the policy of the Council to encourage attendance and participation in discussion by all interested persons.

ARTICLE IX. Dues.

Section 1. Council dues will be assessed to each institution affiliated with the Council. Dues will be paid to the Council at the time of membership renewal. The amount of dues shall be proposed by the Executive Committee and ratified by two-thirds (2/3) of the voting membership present at the annual Council meeting.

ARTICLE X. Amendments. Amendments may be proposed at any annual meeting of the Council. A two-thirds vote of the membership present at the annual Council meeting shall be required for amendment.

BY-LAWS

ARTICLE 1. Management of the Council.

Section 1. The president shall have general supervision of the affairs of the Council. The president shall appoint necessary committees and preside at meetings of the Council and Executive Committee. In the absence of the president, the vice president shall discharge the duties of the president. The vice president is responsible for the annual program.

Section 2. Committees shall be accountable to the Executive Committee under the general supervision of the president.

Section 3. The president shall appoint Council members to the Undergraduate Teaching Awards Committee at the annual meeting. The president shall discharge the duties of the president. The vice president is responsible for the annual program.

Exhibit 8

Range Science Education Council  
Member Institutions - 1996

Arizona State University  
Brigham Young University  
Chadron State University  
Colorado State University  
Fort Hayes State University  
Humboldt State University  
Montana State University  
New Mexico State University  
North Dakota State University  
Oklahoma State University  
Oregon State University  
Sul Ross State University  
Tarleton State University  
Texas A & M - Kingsville  
Texas A & M University  
Texas Christian University  
Texas Tech University  
University of Arizona  
University of California - Berkeley  
University of Idaho  
University of Nebraska  
University of Wyoming  
Utah State University  
Washington State University

## Exhibit 9

### Outstanding Undergraduate Teaching Award Recipients

1986*	John Hunter, Texas Tech University
1987	Jim Stubbendieck, University of Nevada
1988	John Buckhouse, Oregon State University
1989	Wayne Hamilton, Texas A & M University
1990	Wayne Burkhardt, University of Nevada (Reno)
1991	Phil Ogden, University of Arizona
1992	Fred Smeins, Texas A & M University
1993	Lee Eddleman, Oregon State University
1994	None given
1995	None given
1996	Paul Doescher, Oregon State University
1997	Jeff Mosley, University of Idaho
1998	James O'Rourke, Chadron State University (NE)
1999	Mitch McClaran, University of Arizona
2000	Bruce Roundy, Brigham Young University Dave Engle, Oklahoma State University
2001	Ed Redente, Colorado State University
2002	Don Kirby, North Dakota State University
2003	Val Jo Anderson, Brigham Young University
2004	Carlton Britton, Texas Tech University
2005	Dan Rodgers, U. Wyoming

\*Award presented at SRM Annual Meeting in recognition for preceding year.

Exhibit 10

Range Science Education Council  
Member Institutions - 1999

Arizona State University  
Brigham Young University  
Chadron State University (NE)  
Colorado State University  
Fort Hayes State University (KS)  
Humboldt State University  
Montana State University  
New Mexico State University  
North Dakota State University  
Oklahoma State University  
Oregon State University  
South Dakota State University  
Sul Ross State University  
Tarleton State University  
Texas A & M University  
Texas Christian University  
Texas Tech University  
University of California - Berkeley  
University of Idaho  
University of Nebraska  
University of Wyoming  
Utah State University  
Washington State University

EXHIBIT 11  
RANGE SCIENCE EDUCATION COUNCIL  
CONSTITUTION AND BY-LAWS  
Adopted February 13, 2000

ARTICLE I. Name. The name of this organization shall be "Range Science Education Council."

ARTICLE II. Incorporation.

Section 1. The Council shall be incorporated as a non-profit corporation in the State of North Dakota.

Section 2. The council hereby indemnifies and holds harmless its officers, former officers, members, and any other participants against actual expenses and costs (including attorney's fees) incurred as a result of any claim against them by reason of carrying out their responsibilities for the Council except for the cases of negligence or misconduct.

ARTICLE III. Objectives. To promote high standards in the teaching of range management, to advance the professional ability of range managers and scientists, to provide a medium for the exchange of ideas and facts among range management schools, to provide liaison between teaching departments and organizations and agencies in affairs relating to range education and employment standards, and in other ways to foster wider understanding of the problems of range education.

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Section 2. The Executive Committee shall be empowered to act in behalf of the Council between meetings with their actions to be ratified or rejected at the next meeting of the Council.

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Section 1. The president shall have general supervision of the affairs of the Council. The president shall appoint necessary committees and preside at meetings of the Council and Executive Committee. In the absence of the president, the vice-president shall discharge the duties of the president. The vice-president is responsible for the annual program.

Section 2. Committees shall be accountable to the Executive Committee under the general supervision of the president.

Section 3. The president shall appoint Council members to the Undergraduate Teaching Awards Committee at the annual meeting.

EXHIBIT 12  
RANGE SCIENCE EDUCATION COUNCIL STRATEGIC PLAN  
Adopted February 13, 2000

**Mission Statement:**

The Range Science Education Council will promote ecologically sound management of rangelands by advising educational institutions, government agencies and any other group desiring assistance in the training of people who are involved with management of the world's rangelands.

**STRATEGIES:**

**Strategy 1. Monitor changes in range resource management objectives, as viewed by the public, relative to changing resource use demands.**

Action Plan 1. Solicit input from various publics as to their needs and wants from the rangeland resource.

Action Plan 2. Identify and stay current with management objectives of rangeland management entities.

Action Plan 3. Identify primary objectives for which rangeland management regimes are or should/could be constructed.

**Strategy 2. Identify/evaluate the critical elements of range science/management curricula.**

Action Plan 1. Identify information and skills required to enable a rangeland manager to accomplish the management regimes identified in Strategy 1, Action Plan 3.

Step 1. Provide a forum for the exchange of ideas and technologies relevant to range science education.

Action Plan 2. Identify key elements of basic course content that divide the elements of Strategy 2, Action Plan 1 into logical teaching units.

Step 1. Formal education.

(a) develop a repository of rangeland course syllabi.

Step 2. Continuing education.

(a) develop a repository of rangeland shortcourse syllabi.

Step 3. Continue to interact with the Professional Affairs Committee.

**Strategy 3. Promote and recognize excellence in range science education.**

Action Plan 1. Identify and recognize outstanding programs and individual faculty.

**Strategy 4. Monitor current requirements and provide recommendations to national, state and private rangeland management entities as to the minimum requirements of properly trained range personnel.**

Action Plan 1. Monitor the hiring requirements of people charged with management of rangelands.

Action Plan 2. Determine the basic training requirements/standards that an entry-level range manager should have.

Action Plan 3. Promote the standards in Strategy 4, Action Plan 2 to management (hiring) entities.

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## SOCIETY BUSINESS

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### COLLEGE CURRICULA IN RANGE MANAGEMENT

#### *Final Report of the Civil Service Eligibility- Curricula Committee, 1951*

The American Society of Range Management should not attempt to accredit or "Approve" colleges for range management instruction. The Society should, however, publish a "Standard Range Curriculum" for guidance of schools, students, and the U. S. Civil Service Commission.

The objectives of a range management training program should be: (1) Developing better range management scientists to the general benefit of the range resource. (2) Providing training needed by employees of government and private land managing agencies. (3) Producing better informed and trained ranch operators fully capable of developing and applying new techniques in range livestock and range land management. To these ends the following curriculum is recommended. Since subject material is divided and labeled differently by different institutions, specific course names and number of course or hours involved are not included in these recommendations.

A. Basic courses necessary to technical range management and to improvement of human relationships and understanding:

1. *English*, especially writing and grammar.
2. *Speech*.
3. *Mathematics*, including algebra and trigonometry.
4. *Chemistry*, including organic.
5. *Economics*, especially agricultural.

B. Technical courses necessary to all professional range land managers:

1. *Range Management*: including ecological and physiological relationships of plants on the range; range appraisal and classification, including measurement of utilization; range livestock management; native forage plant and poisonous plant identification, distribution, and ecology; economics of range and livestock management; multiple-use principles of range land management; range development and improvement, including seedings; range history; federal land administration and policy; and *field* application of range management principles.

2. *Animal husbandry*, including feeds and feeding, nutrition, range livestock breeds and judging, and range livestock management and production.

3. *Botany*. Thorough taxonomy, ecology, and physiology.

4. *Soils*, including morphology, principles of classification, fertility, erosion control, and vegetation influences.

C. Elective courses in addition to the above subjects desirable for a broad understanding of range management problems and necessary for professional range managers planning careers in certain specialized fields or certain government bureaus (listed without reference to their relative importance):

1. *Forestry*, including management, measurement, silviculture, and fire control.
2. *Wildlife management*, especially big game, predators, and rodents.
3. *Zoology*, especially animal ecology.
4. *Geology*.
5. *Land surveying and mapping*.
6. *Veterinary science*.

7. *Genetics*.  
 8. *Agronomy*, especially forage crops.  
*Alan A. Beelle*  
*W. R. Chapline*  
*Waldo Frandsen*  
*R. J. Johnson*  
*G. M. Kerr*  
*Louis P. Merrill*  
*L. A. Stoddart*, Chairman



ANNUAL REPORT OF DEPOSITORY  
 COMMITTEE, 1951

(Summary)

The Depository Committee met with Librarian Hendricks and his staff, in the Library building at U.S.A.C., Logan, July 7, 1951.

Doctor Hendricks, speaking for the Library, offered to house, protect, and make available for reference, all appropriate range management material which the Society, or its members would deposit. This material could include archives of the Society, published papers, unpublished manuscripts, valuable notes of members, reprints, theses in the field of range management, and any accumulations of material on range management which members of the Society would care to place in the library.

The U.S.A.C. Library offers to bind any mimeographed, typed and other materials requiring binding to make them last through the years. A distinctive color for binding may be assigned to the A.S.R.M. Library so that the material will be more readily available and more sure of return to its place.

Other library conveniences offered are reading rooms, space in the new wing of the library building, if the Society chooses to establish a research library in Logan, and borrowing and lending privileges through an association of libraries so that material would be available for use from any great library on a loan basis.

The committee thanked Dr. Hendricks and through him the College and asked that the College put these offers in writing so that the Depository Committee may present them to the Directors of the Society.

It was pointed out that many range men will want to find a permanent home for personal libraries accumulated over many years, which may be without a caretaker at some future time. A Society library would give fine care and provide use over the years by students of range management.

There is a future for the Society's proposed research library.

*Hugh M. Bryan*, Chairman

EXHIBIT 14

J. Range Management 15 (1962):181.

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**Current Minimum Requirements For  
Professional Training in Range Management**

At least 16 universities and colleges have a 4-year curriculum in range management. Representatives from these schools organized the Range Management Education Council in 1960 to discuss educational problems and to foster improvement in range education. At a meeting on January 24, 1962, minimum requirements for professional training in range management were adopted by unanimous vote. These requirements are given below as a guide to those hiring professionally trained range managers, and to those schools which may be considering the establishment of a B. S. program.

**BOTANY**—One course in each of basic botany, plant taxonomy, plant physiology, and plant ecology.

**ZOOLOGY**—One course.

**CHEMISTRY**—One course in each of inorganic and organic.

**MATHEMATICS**—Through algebra and trigonometry.

**SOILS**—One basic course.

**ANIMAL HUSBANDRY**— Six semester hours which must include one course in

either nutrition or feeds and feeding.

**RANGE MANAGEMENT**—16 semester hours which must include work in each of the following areas:

1. Range plants: Identification and ecology of individual plants and plant communities, including agrostology.
2. Range methods and techniques: Vegetation sampling, inventory, utilization, condition and trend.
3. Range Management Principles: grazing management, improvements and developments, economics and planning, and multiple use interrelationships.

It is assumed that a Bachelor of Science Degree in Range Management will include adequate coursework in communication skills and economics.

**DESIRABLE SUPPORTING COURSES**

Physics	Watershed	Surveying
Statistics	Wildlife	Forage Crops
Geology	Forestry	

Exhibit 15

Range Science Education Council  
Member Institutions – 2000

Brigham Young University  
Chadron State University  
Colorado State University  
Ft. Hays State University  
Humboldt State University  
Montana State University  
New Mexico State University  
North Dakota State University  
Oklahoma State University  
Oregon State University  
South Dakota State University  
Sul Ross State University  
Tarleton State University  
Texas A & M University  
Texas Christian University  
Texas Tech University  
University of Arizona  
University of California – Berkeley  
University of Idaho  
University of Montana  
University of Nebraska  
University of Wyoming  
Utah State University  
Washington State University