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ABSTRACT

The purposes of this report, prepared for a school board, are to give a brief statement of the need for environmental education, then to present a summary of the objectives, content, curriculum, financing, management, and history of the program cooperatively developed by a college and school district in Montana. This program in the first five years of its operation has been a totally locally developed project, and has been completely funded by the P.T.A.'s of the participating schools. It has grown from involving one sixth-grade classroom camping out in 1967 to 33 sixth grade classrooms in 1971. The environmental problems in Montana which need instruction are: air pollution, water problems, urbanization and land use. The significant role of the school system in these problems is to help young people understand their total environment, help them learn how to find out about the essential ingredients of problems, and, lastly, help them develop the attitudes and abilities that lead to responsible citizenship exercised in actions toward solving problems. (Author/AWW)

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Report on the

First Five Years of Operation (Spring 1967 through Spring 1971)

of the

OUTDOOR AND ENVIRONMENTAL EDUCATION PROGRAM

in Billings, Montana

5¢ 002201

-- a program developed cooperatively by
certain faculty members of Eastern Montana College
and certain teachers and principals of
Billings School District #2.

-- Report prepared August, 1971.

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Staff of the Environmental Education Program
-- and their tenure of service in the program.

Co-director of the Program --

Professor Erick Erickson. Principal of the EMC Campus School and Associate Professor of Education, EMC. With the program since spring 1967.

Co-director of the Program --

Dr. Wilson F. Clark. Chairman of the Division of Science and Mathematics of EMC, and Professor of Conservation Education. With the program since spring 1967.

Other Staff --

Dr. Helen Grilley. Professor of Education, EMC. With the program since 1967.

Dr. Norman Schoenthal. Professor of Biology. Ecologist. With the program since 1967.

Mr. Tim Mares. In spring 1967 was sixth-grade teacher in the EMC Campus School. Since fall of 1967 has been Principal of the Taft School.

Professor Elmer Andersen. Associate Professor of Earth Sciences, EMC. With the program since spring of 1967.

Mr. Ed Heiser. Joined the program in fall 1967. Was sixth-grade teacher in the EMC Campus School for spring 1968, 1969, and 1970 programs. In fall 1970 became Principal of Rose Park School. In summer 1971 became coordinator of Title I Programs in the Central Administrative Offices of District #2.

Professor Roland Grant. Assistant Professor of Earth Sciences, EMC. Joined the program staff in fall 1970.

Mr. Charles Reed. Joined the program in fall 1970, as sixth grade teacher of the EMC Campus School.

I. Introduction

The purposes of this report are to give a brief statement of definition and of the need for environmental education, then to present a summary of the objectives, content, curriculum, financing, management, and growth of the Environmental Education Program cooperatively developed by Eastern Montana College and Billings School District #2, covering the years 1967 through spring of 1971. This program is a unique one in the State, perhaps even unique throughout the nation, in that in the first five years of its operation it has been a totally locally developed program, and has been funded by the Parent Teacher Associations of the respective participating schools. There has been no federal money, no state money, no college money, and no school district money specifically assigned to this program. And the program has grown from involving one sixth-grade classroom of 29 children in the spring of 1967 to 33 sixth-grade classrooms from 12 schools and containing approximately 900 children in the spring of 1971.

This report is, then, primarily a background statement and an historical document. It does not speculate about the future of the actual program, although such plans and speculations certainly have been discussed by the staff.

II. Definition of Environmental Education

A semantic morass exists at present concerning the three terms conservation education, outdoor education, and environmental education. Much hair-splitting has occurred. Various academic areas have sought to pre-empt one or another of the terms. In this program we have frequently used Outdoor Education, since a significant aspect of the program involves study and investigations outdoors -- out of the classrooms. But this term means to many people merely anything one does out of doors -- sports, camping, hiking -- and this is the meaning the Physical Education field has given the term. Such a meaning does not embrace our philosophy. To reflect that philosophy we will consistently use the term Environmental Education.

Of the many definitions developed, the one which best expresses the philosophy of this program is as follows:

"Environmental education consists of the recognition by man of his interdependence with his environment and with life everywhere, and the development of a culture which maintains that relationship through policies and practices necessary to secure the future of an environment fit for life and fit for living."

from Dr. Matt Brennan and Dr. Paul Brandwein,
who developed this definition while associated
with the Pinchot Institute for Conservation
Studies.

III. The Need for Environmental Education

Today, unlike just a few years ago, many people are now aware that man, particularly in highly industrialized nations, has driven a long way down the road of contamination and destruction of the very earth on which he depends. Many are the symptoms, and they have been chronicled in innumerable publications.

While in Montana, we do not have the severe problems of many states, we do have examples of all of them. And our social, economic, political, and educational structures, attitudes, and actions (which basically are the same as those of the whole nation) have been and still are leading us further along the same blind path. The only reasons Montana is not in as severe difficulty as many states are the shorter period of time since settlement, and the smaller population.

To be specific as to problems, here are a few examples from the Billings area that, as mentioned, illustrate national problems but on a smaller scale.

A. Air pollution.

Air pollution now is of disaster proportions in many parts of the nation. It is a major problem in Missoula. And air pollution is an important problem in Billings, with the refineries, power plant, rendering works, incinerators, home furnaces, cars, and much else contributing.

B. Water problems -- pollution, destruction, and scarcity of good water.

On a national basis, immense difficulties are faced in cleaning the lakes and rivers of untreated sewage from 70,000,000 people, of the thousands of industrial waste materials, of the hundreds of toxic chemicals, and of the millions of tons of silt -- all in an effort to have good water and enough of it. Locally we can show the Yegan Ditch -- an open sewer, the "weeping wall" on the Bench area, the heavily overtaxed sewage treatment plant which gives primary treatment only, Canyon Creek and other streams heavily laden with silt and agricultural chemicals, the annual destruction due to high waters of the rivers, the streams draining feedlots, the storm sewer difficulties, the water rationing, and a host of other water problems.

C. Urbanization, and all its consequences.

In our nation, about 70% of the total population actually lives on about 2% of the land area. For the youth (ages 5-17), 77% of them will be living

in urban areas by 1985. This concentration of people, usually in a totally unplanned manner, creates a host of difficulties. In Montana we have about 5 people per square mile, yet when one considers Billings and Great Falls alone, about 20% of our total population of 700,000 is in those two urban areas. If one adds Helena, Bozeman, Butte, Miles City and perhaps a few more, one finds that even though we think of Montana as a rural state, in truth most Montanans are urban people, with urban experiences and attitudes, and they are faced with urban problems similar to but perhaps not yet as severe as those of heavily populated states.

In Billings, for instance, we have had much concern about the business shift from downtown to the outskirts, the decay of some parts of the city, the intermingling of industrial and residential areas, the traffic and parking problems, the urban sprawl (totally unplanned) on productive agricultural land, the pressures and difficulty of supplying adequate public services (water, sewer, and police and fire protection, to name a few), park development and maintenance, solid waste disposal, and many more.

D. Land Use and competition for use.

Throughout the nation almost no real thought has been exhibited in considering the possible competitive uses of land, or in real long range planning for the most reasonable land use. One can find exceptions, but in the main land use is determined almost entirely by economic factors, by isolated private initiative with few if any public concerns, or by piecemeal or expedient decisions of various levels of government.

In the Billings area we face similar problems, such as a number of haphazard real estate developments giving little thought to needed services or even to health standards, leap-frog urban sprawl westward on the good irrigated farm land, interstate highway construction on that good agricultural land, the continual dilemma of street maintenance and traffic flows, very large areas (as at K-Mart and others) of blacktop and the water runoff as well as esthetic problems they cause, house construction on unstable land (as along the base of the rims and on Mountain View Blvd.), residential and other construction in the flood plain of the Yellowstone River, continual changes of zoning, isolated islands of unannexed industrial land within the city, demands for city services by adjacent non-city areas, development of city parks (we've done fairly well on that), lack of development of county parks, and many more. True, we have a Planning Board,

and some long-range plans are on paper, but both have been quite ineffective thus far in really directing the nature and areas of the growth of the city.

One could cite other problem areas of importance, but the point is that for almost every national problem one names, examples of each are present locally, now. As said before, the only reason they are not more severe than they are at present is that we in Montana just haven't had the time to destroy or degrade to the extent found in older areas. But our attitudes and actions are driving us rapidly along the path followed by many other states.

IV. Root-causes versus symptoms of Environmental Problems.

"It is evident that some important root causes of our environmental crisis rest in our present consumer and corporate behavioral patterns, our inability to cope with the population dilemma, and the lack of environmental policies that are responsive to an emerging ethic where man is living compatibly with his environment."

Dr. William Stapp, School of Natural Resources,
Univ. of Michigan, Ann Arbor, Mich., in
a program report for the Kenai Peninsula
(Alaska) School Board, July, 1971.

Too frequently in the past as well as in the present we try to solve environmental problems by attacking the symptoms, rather than the causes. For instance, in solid waste disposal, the symptoms of the problem are massive amounts of solid waste. As someone remarked acidly, "We're standing knee-deep in garbage, shooting rockets to the moon." We attack this problem by trying merely to get the solid waste out of sight -- by burning it, or by burying it, or by locating an open dump out of view. We're attacking the symptom. Instead, we need to look at why we have such a large amount of waste. The root causes of the problem, then are not the waste, but are instead our attitudes and our patterns of action. We have an attitude of prodigal waste; we worship product changes and gadgetry irrespective of whether or not they are improvements; we demand of our industries (and industries through advertising feed and build that demand) ridiculously extravagant use of materials in packaging; we buy on the basis of exterior superficial factors of color or chrome rather than on the quality of the product; we encourage and allow (through our buying habits) industry to build obsolescence into many products; we have great contempt for other people, as shown by our strewing trash widely; and economics as well as apathy have not moved us very far on the critically important matter of recycling of materials.

In similar ways one can show that the root causes of most of our resource and of our environmental problems lie in attitudes, in social customs, and in political apathy to force solutions. For very few problems is it valid that technical knowledge does not exist to solve a problem or at least to make significant progress towards solution.

As a logical extension of these ideas, one realizes that to make significant headway we as a nation need to try to alter (a) individual and consumer attitudes and behavior patterns, (b) corporate and industrial attitudes and behavior patterns, and (c) governmental attitudes and behavior patterns.

V. The Role of the Schools in producing responsible, environmentally literate citizens.

When one examines most modern school curricula, one finds that much "education" is vocationally oriented -- that is, we teach specific knowledge and skills designed to help a person become self-supporting. These are important. However, we pay little attention to the development of critical thinking, problem solving, consideration of raw data, examination or development of alternatives, understanding of cause and effect, identifying issues, evaluating solutions, developing belief and attitudes, building a sense of individual responsibility, becoming sensitive to one's environment, understanding the political process through which citizens may bring change, and developing plans for and carrying out actions aimed at the solution of problems.

These areas just listed offer to schools an exciting, a significant, and a largely-untapped role in education. Were these components to become a part of the schooling process, we would be helping to produce citizens having a motivating concern for and factual knowledge of the relationship and responsibility of man to his environment. Further, those citizens would have the knowledge and skill of how to get at the root of a problem and to move towards a solution.

A significant role of the school system can therefore be to help young people understand their total environment, help them learn (through investigations of problems on their level) how to find out about the essential ingredients of problems, and, lastly, help them develop the attitudes and abilities that lead to responsible citizenship exercised in actions to contribute to solving problems.

VI. The Long-range Goals of the Environmental Education Program of Eastern Montana College and Billings School District #2.

The program of the last five years has made a strong concentration of effort on the sixth grade level. It is but a beginning. In time we would hope that environmental education prevades the curriculum from kindergarten through the 12th grade. The long-range goals stated here are those which we feel should be stated for a student graduating from a Billings high school. Some aspects of present curricula now contribute to reaching some of these goals. Much more could be done. At present, these goals are general guides for us, and our sixth grade program is the place we've started implementation.

A. Overall Goal.

Ever since the beginning of this program our overall goals have been to help children --

1. to become knowledgeable concerning their total environment (biological, physical, social, cultural, economic),
2. to become skillful in how to ferret out the significant aspects of a problem or situation,
3. to become sensitive to their own role in and responsibility to developing a productive and liveable environment, and
4. to become motivated to work constructively towards the solution of environmental problems.

B. Components of the Overall Goals.

1. Specific areas of knowledge which are either now in our program or which in time we hope to have in our program:
 - a. The concept of "space-ship earth" -- a closed system totally dependent on its own resources except for incoming energy from the sun.
 - b. The concept of biological (natural) ecosystems -- with their interdependent segments, their constant change, and their dependence on and affect on their biological and physical environment.
 - c. The concept of human ecosystems, and of the cultural, social, political, and economic aspects of them, in addition to the biological and physical aspects listed in (b) above.

d. Concepts of environmental management.

(1) how we carry out and how we depend on the extraction, fabrication, and use of resources.

(2) how we have degraded the environment.

(3) how we must find ways to build a quality environment while at the same time we enjoy the use of the resources.

e. Concepts of our cultural institutions.

(1) Information on population problems.

(2) Understanding of our social, economic, and political structures, of how they work, of how they interact, and of how the individual may responsibly act to alter and improve the effectiveness of those structures and systems.

2. Specific areas of attitude development.

a. Assist teachers and pupils in developing a concern for and a sensitivity to the quality of the environment, both natural and man-made.

b. Develop a sense of individual responsibility.

c. Foster the growth of a desire -- a motivation -- to help resolve environmental problems.

3. Specific areas of skill development.

a. Develop in teachers and pupils investigatory skills involving critical thinking through:

(1) identifying and defining a problem.

(2) collecting information about the problem.

(3) evaluating that information as to validity, relevance, bias, emotionalism, and accuracy.

(4) devising experiments, studies, or investigations, collecting data, and properly using those data to draw conclusions or to make sound generalizations.

b. Develop action skills in problem solving through:

(1) using the results of the investigating skills.

(2) becoming well informed.

(3) developing and stating alternatives.

(4) devising a plan of action.

(5) putting that plan of action into operation, to contribute towards achieving the desired change.

VII. Specific Goals of the EMC/District Environmental Education program, as applied thus far to sixth-grade youngsters.

While the statement of overall goals and of the components of them are part of the general philosophy under which our program operates, we obviously cannot and should not drown the sixth graders by trying to carry them the whole way. Those broad goals apply to a total environmental education program (K through 12 or probably K through 16). In the elementary grades the major emphasis is on helping children to discover facts and interrelationships, with as much "doing" and experimentation as possible.

To this end, and for the sixth grade program, the specific objectives are these (with added comments in parentheses of program ingredients that endeavor to meet each objective):

A. Develop in the children --

1. an understanding of the major biological and physical factors of ecosystems, both natural and man-made. (Studies of such ecosystems are part of the program.)

2. skill in measuring and observing those factors. (In their studies of ecosystems the children do experiments, make observations, and measure factors of ecosystems.)

3. ability in collecting and recording data about environments. (These the children do in their studies.)

4. ability in drawing logical conclusions from the experiments, the field and classroom studies, and the compiled data. (To some extent the children do this.)

5. skill in devising and carrying out investigations of problem areas, with some evident action or followup that is within the powers of the children to perform. (This objective has not been realized to much of a degree, but it still is one we hope to reach.)

6. a greater sensitivity to the nature and quality of the world around them.

B. Carry out teacher training workshops or courses (in-service and pre-service) to prepare teachers with the attitudes and skills of environmental education suitable for their grade level. (There have been five formal workshops and two informal ones.)

C. Train college students in many aspects of camp counselling. (Three of these courses have been carried out.)

D. Train college students as "backup instructors" for the camp program and for the pre-camp schoolroom activities. (One formal special program has been carried out to do this job.)

VIII. Curriculum, Instructional, and Activity Components of the EMC/District Environmental Education Program for Sixth Graders

A. Teacher Training

1. Background, and statistics summary.

A program of this nature depends absolutely on the ability of the teachers to guide students towards achieving the specific goals.

In the first year of the program (spring 1967) the college staff spent some time with the one classroom of children, in conducting local (school ground) observation tours, and in helping the teacher. Subsequently the staff carried out the first camp program for 29 children of the EMC Campus School.

In the second season (spring 1968), the two teachers involved were helped in somewhat the same manner as in Spring 1967. The camp program then involved 52 children from 2 classrooms (one from Taft and one from EMC Campus School).

In the third season (spring 1969), which involved 192 children, we set up the first formal credit-granting teacher workshop designed specifically for this program. There have been workshops spring 1969, fall 1969, spring 1970, fall 1970, and spring 1971.

In these five formal credit-granting workshops we have had 116 teachers, and 122 EMC education students, for a total of 238. We encouraged

college student participation in these workshops in order to develop a pool of students that could be used as camp counsellors. Subsequently several camp counsellor training courses were offered, and are described in VIII B below.

The complete tabulation of courses and attendance is given on Table I of Appendix A. In Table II of Appendix A is a record of the Billings principals and teachers who were employed in the Billings District #2 system in the year 1970-1971, and who had taken the Environmental Education Workshop at one time or another.

2. Content of the workshops.

As in any program, so with this one: the training program gradually evolved from year to year. The workshop content for spring 1971 is given in Appendix B, as described in the material issued to the teachers in their first session. The workshop involved five evening sessions of two to two and one-half hours each, plus one Saturday session, plus a two-day experience (7:00 a.m. Saturday to 3:00 p.m. Sunday) at the Lions Camp at Red Lodge.

The evening sessions largely involved the students of the workshop in investigation methods on environmental factors and problems, plus some information and discussion on camp management factors, social arrangements (sociograms) for the children when at camp and, of course, general philosophy. For many of the exercises and investigations the workshop students were issued various materials.

The Saturday session, held on the seemingly educationally sterile grounds of the Taft School, emphasized, demonstrated, and gave the students practice in seeing and using some of the many opportunities to be found on or near any school grounds -- including those with large asphalt areas.

The two-day camp session carried the workshop students through the same basic instructional and investigation program the children subsequently would experience.

B. Camp Counsellor Training.

The camp aspects of the children's program would have been impossible to carry out without the help of many EMC students. In the first two camp sessions (spring 1967, spring 1968) the numbers of children were respectively 29 and 52 children, and we recruited interested students but gave them no special training.

For the spring 1969 program we used EMC students who had participated in the first formal credit-granting workshop, or in either of the first two camp programs of 1967 and 1968. Then, for the spring 1970 program a camp counsellor course was put into operation, and students from that plus from the Environmental Education Workshops gave us the assistance needed to handle the some 480 children. For handling the some 900 children of the spring 1971 camp session, in both winter quarter and spring quarter Counsellor Training Courses were offered, and 134 EMC students were in them. They, plus EMC students from previous workshops and courses, gave us the approximately 170 students that helped in one way or another with the spring 1971 children's camp program. The statistics on these Counsellor Training Courses are included in Table I of Appendix A.

C. Backup Instructors Training.

For the spring 1971 program, we in early February recruited 12 interested and experienced EMC students who had been heavily involved in the program of one or more of the previous years. From February on, we considered those students part of the camp's instructional and managerial staff, and all of them carried out many pre-camp planning and operational assignments in cooperation with the non-student staff -- such as detailed planning and contact relative to all bus transportation, detailed planning of each of the nine sessions of the sixth-graders, and camp opening work. Then, during the children's sessions, these students played a major instructional role with the children. In fact, between these students plus some of the workshop teachers, the Eastern faculty members were partially freed of instructional duties at the children's camp sessions, and could better meet their continual obligations at the college.

A list of the program faculty plus a list of these "Backup Instructor" students is given in Appendix B, in the material issued to the teachers at the first meeting of the Workshop.

D. Pre-Camp preparation of the sixth grade children.

A significant aspect of this program is that no classroom of children could participate in the camp program unless their teacher had taken one of the Environmental Education Workshops. In many instances, the principal also had taken the workshop. Although this was not a requirement, it was of great help in the success of the program. The teacher and the principal are the keys. What goes on before the camp experience is more important than the camp experience

itself. We have always felt that if the EMC/District program consisted only of the two-day camp experience, it would not have any lasting effect. Therefore we encourage and aid the teachers to carry out various in-classroom and on-school-grounds activities and investigations before the children come to camp. The most effort and the most success has been with studies of ecosystems. As a result, most of the children arrive at camp with a surprisingly good basic concept of and experience with simple environmental systems. They are aware of many of the key factors -- physical, chemical, and biological. As a result, the field instruction and studies at the camp are able to operate on a higher and more sophisticated level than they would if the children had not had such pre-camp experiences.

The pre-camp segment of the total program does, however, need more formal organization, help, and direction, and we're planning on offering this in the future.

E. Content of the Camp Sessions for the Sixth-grade Children.

In Appendix C is the detailed program of the children's sessions of the spring 1971 program. The programs of all nine sessions were the same.

1. Field Instruction and Investigations.

The children are actually at the camp approximately 48 hours (from about 7:00 p.m. of one day to about 7:00 p.m. two days later). In that time they receive about 10 hours of field instruction, in four different instructional areas through which the children rotate. These four subject areas are briefly described below:

(a) Ecosystems studies.

(1) Ecology of a stream. The children carry out collections, observations, and measurements of a stream, followed by a discussion of factors of an aquatic habitat and conclusions of the level of and reasons for the particular productivity found.

(2) Ecology of a small area of land. A transect study is carried out, with emphasis on the kinds and densities of plants, and speculations on the reasons for the several different environments discovered.

(b) Geological studies.

The children collect, examine, test, and classify various kinds of rocks. They discuss the origins of the rocks, then study the overall geologic nature of the local valley, and the many geologic forces at work. And these geologic aspects are then related to man and his use of the land.

(c) Geographic studies.

(1) The children have an opportunity to see and to use various weather instruments, and to compile weather data charts.

(2) Spacial and directional concepts are explored, through the uses of compasses, pacing, very simple surveying and mapping tools, creation of simple maps, and discussions of the influence of geographic factors on man's history and present land use.

(d) Plot studies (studies of environmental factors of land).

In this unit the children (in groups of 3 or 4) actually carry out a detailed study of a small (3 ft. X 3 ft.) plot of ground. They (1) map the plant cover, (2) map the animals or animal signs, (3) determine elevation change, (4) stake out contour lines, (5) measure slopes, (6) measure surface and subsurface temperatures, (7) measure soil compactness, (8) measure soil permeability to water, (9) expose and map a small soil profile, (10) carry out a simple particle-density analysis of the soil which yields its percent composition, (11) record all these data on their maps, and (12) discuss throughout the investigation the significance of the several factors to the plants and animals of that tiny area and the significance of those factors (on a broader scale) to man.

2. Other instructional components.

(a) First Aid

Each of the children's sessions had a medical doctor in camp at all times. The doctor for each session put on two first-aid instructional sessions, and every child attends one or the other. The doctors have done an outstanding job of demonstration, discussion, and communication with the children, and on their level.

(b) Art

For the spring 1971 session, Dr. Helene Northcutt of the EMC Art Department, using a class of her advanced students, had at least two art students assigned to each of the children's sessions. Each child had one hour of creative art experience, and an additional period (in free time) for completing projects. The art instruction in spring 1971 was well-organized, well-staffed, well-run, and successful.

3. Recreation

Various blocks of time in the children's camp program were for "free time," during which numerous recreational activities occurred (baseball, volleyball, hiking, and others) on an optional basis. For these periods, EMC students were in charge who were in camp as counsellors and who had Physical Education training. The Health, Physical Education, and Recreation Department of EMC was most cooperative in helping make arrangements and in manning those activity periods.

4. Music and dramatics.

While in previous years the camp sessions have had the services of music instructors from District #2, in the spring 1971 program the planning and presentation of the evening campfire programs were assigned to each teacher whose classroom was in attendance. In most instances the teacher and the children had planned and rehearsed their contribution before coming to camp, and had made it part of the in-classroom pre-camp music and creative dramatics program in their school. Those evening programs were very enjoyable for all concerned, and added significantly to the spirit and success of the total camp program.

IX. Evaluation of the Instructional Components.

Evaluation of any program is essential, particularly in relation to the stated specific objectives (see Item VII). In this program we have met the objectives of teacher and of college student training (Objectives B, C, and D), and have used post-session evaluation forms for the workshops, which indicate a high degree of teacher approval and acceptance.

For the objective A, dealing with the children's growth in understanding, in sensitivity, and in various skills, we have not used specific evaluating tools, such as pre-tests/post-tests. This is an omission we hope to correct. We do get

enthusiastic "feedback" from many parents and children, and the fact that a number of school Parent Teacher Associations have repeatedly assumed and met the financial obligations seems to indicate strong parental acceptance of the children's pre-camp and in-camp program.

X. Camp Management Components

The camp management aspects of the Environmental Education Program are many and varied, and are of critical importance in creating a learning atmosphere for the instructional portion of the camp program (see section VIII E above).

A. General Organization.

Each camp session was managed by a Director. He was in overall charge of the session. Responsible to him were the kitchen staff, the instructional staff, and the tutor-counsellors of that session.

B. Specific Duties.

1. The Director of each session was the general manager and coordinator of all aspects of his sessions. His jobs are many, and involve much planning and detail. He must arrange for transportation, food, lodging, insurance, camp cleanup, fuel, and a thousand other things. And he must account for and have the overall responsibility for the children, to include their being present at their instructional sessions and their general well-being.

2. The Instructional staff operated as described in VIII E above, and according to the schedule shown in Appendix C.

3. Tutor-Counsellors

a. Well oriented and capable tutor-counsellors are essential. They have an opportunity to do a great service to the boys and girls participating in the program. Unless they accept the job in this light they will be doing an injustice both to the children and themselves. At the camp sessions, every tutor counsellor had taken either or both of the training sessions (E.E. Workshop, or Camp Counsellor training Course. See VIII A and B). And for each session we had one tutor counsellor for each six or seven children, plus some extras assigned to other duties.

b. Basically the tutor-counsellor is accepting a challenge to help in the wholesome development of the campers under his direction. Naturally, we

recognize that every child should enjoy fully his stay at camp. However, the tutor-counsellor should consider a child's needs more deeply than just having a good time. In order to help in this development process, the tutor-counsellor should try to understand some of the basic needs of all children. The following are needs which every child has and that must be met in some measure to ensure a well rounded life.

(1) The need to feel that he is liked and accepted by others.

(2) The need to feel a successful "Sense of accomplishment."

In other words, to feel he has done something worthwhile.

(3) The need for healthful physical development through proper exercise, nutrition, and hygienic living habits.

(4) The need to learn useful recreational and practiced skills; to develop appreciation and enjoyment of camping skills, nature craft hobbies, hiking, etc.

(5) The need to develop a sound attitude toward his companions; to understand and accept a creed of tolerance, fair play, unselfishness, and above all, a clear concept of the Golden Rule.

c. The tutor-counsellor's major responsibility is directed to the over-all development of the children. More specifically, each tutor-counsellor should keep the following areas of responsibility in mind. His dependability in consistently carrying them out will have a large bearing on the success of the outdoor education experience.

(1) Appearance

Appearance should be neat and clean in person and dress.

How else can we impress the values of personal hygiene to the campers?

(2) Setting Example

Setting an example in all of his personal behavior. The Leader cannot "lead" who does not do so by example. The tutor-counsellors' manners and eating habits are certain to set the pattern for his cabin at the table. His example with his own bunk and personal possessions in the cabin will set the expectancy for tidiness. His observance of camp rules such as camp boundaries, will be closely observed by the children. His language will be reflected by impressionable youngsters!

(3) Doing More Than Your Share

His readiness to do his share and a little more in all camp

tasks is very desirable. One of the finest things that can be said about a leader is that "He is always willing to do more than his share". There is always plenty to do in a camp which might be easier to avoid. In addition to obvious tasks associated with camp clean up, there are always tasks around camp which need some willing hands.

(4) Camp Routine

The tutor-counsellor has a constant responsibility to aid in the smooth running of camp daily routine and program. Being on time is imperative. Success of the program depends upon getting things done on time. Tutor-counsellors should always be at each activity or gathering ahead of time, after first being sure that their campers are accounted for.

(5) Assignments

In addition to his cabin group, each tutor-counsellor has other assignments assisting with the camp program. Each tutor-counsellor should accept his role in the program seriously. He must prepare ahead of time so that his part of the program will be a success. A schedule of Kampus Kapers is used to designate duties at camp. The camp director designates the duties.

d. Cabin Assignments. Cabin assignments are made with the best interests of the students in mind. This is best accomplished by utilization of a sociogram, and these are made by the classroom teacher in cooperation with an EMC faculty member (Dr. Grilley). It is essential that a student is not assigned a cabin with another student whom he has indicated he does not wish to have in his cabin. It is also important to assign a student to a cabin with at least one of his friends. If these simple rules can be adhered to in making cabin assignments, the camp will be more enjoyable for the students.

e. Cabin Clean-Up. In order to be democratic the tutor-counsellors should let the students help make the rules in regard to the cleanliness of the cabin and area. However, the following rules are essential:

- (1) All clothes in cabinets to be neatly folded. Keep your cabinet neat.
- (2) Soiled clothing may be kept in a laundry bag, or suitcase.
- (3) Jackets and hats should be hung up neatly.
- (4) Shoes placed side by side uniformly in cabin.

(5) All personal equipment such as soap, toothbrush, comb, flashlight, pocket knife, craft supplies, etc., are to be kept in a cabinet or suitcase -- not hidden under a sleeping bag or elsewhere.

(6) Bunks, sleeping bags and suitcases dusted and neat.

(7) Floor and porch swept.

(8) All papers and anything which is not a part of nature should be picked up from within a twenty-five foot radius of cabin. **THE MOST IMPORTANT PART OF A CHILD'S CABIN CLEAN-UP TAKES IN KEEPING HIS OWN BUNK AND PERSONAL POSSESSIONS NEAT AND CLEAN AT ALL TIMES!!!**

f. Mess Procedures. The dining hall has three main functions:

-- To provide nourishing and well-balanced meals.

-- To teach socially acceptable meal time behavior.

-- To help children learn to appreciate and enjoy food.

The meal time procedure is as follows:

(1) When children arrive at the table, all stand behind their chairs to sing grace.

(2) Good posture for all present is expected.

(3) Each table of children will line up for food when the camp director signals. The camp director designates the order in which the groups line up.

(4) Children are allowed plenty to eat, but they are expected to eat all they take.

(5) No one eats until all are served and seated at their respective tables.

(6) Tutor counsellors are expected to be seated with their assigned groups.

(7) Tutor counsellors will set the example for the proper use of the eating tools, use of napkin, and pleasant conversation. Students are expected to follow.

(8) Second are allowed after everyone has had their first serving and upon direction from the cooks.

(9) When children have finished eating, they remain seated until all or nearly all others have finished.

(10) Normally each table is responsible for their own dishes. The cooks will demonstrate the method for washing dishes and storing garbage.

g. Camp Physician.

A medical doctor is present for those who become sick or need special medication. Up to this point doctors from the City of Billings have very graciously given their time for the success of this program. In the 1970-71 program, eight medical doctors contributed their time, and one of them covered two sessions.

Sick call is normally held between 8:00 and 9:00 a.m. in the morning. However, a medical doctor is always on hand should an emergency arise. The medical doctor also gives the first-aid instruction as a regular part of the program.

XI. Financial Components

This EMC/District Environmental Education Program is a unique one in many ways. And one of its most unique features is its manner of funding.

For the five years of the program it has had no Federal money, no State money, no District money, and no College money specifically budgeted to the program. Financing has been met by the Parent-Teacher Associations of the participating schools. They have held many fund raising activities to meet the charge per child. In addition, numerous classrooms of children have carried on their own fund raising endeavors such as hot-dog lunches, donuts and coffee at a few polling places, and so on.

In each participating school the PTA has raised the money, or gotten the parents to pledge the money for their children, or a combination of these. In no case was a child unable to go merely for the lack of the money.

This remarkable and sustained effort by the PTA's is a tribute to them and to their belief in the program. However, this arrangement cannot, of course, continue indefinitely, and stable, District-wide funding will be necessary for the program to grow.

A table of financial data is given in Appendix E.

XII. Conclusion

This program, a local boot-strap operation, has been successful and has been growing rapidly for the last five years. We are now at the point of needing to

assess where the program is to go from here. However, that speculation is not part of this report. The Program Staff has discussed various ideas with a number of key people, but it would be premature to include them here.

Persons interested in discussing any aspect of the Billings Environmental Education Program, or in receiving further copies of this report, need only contact one of the co-authors of the report and co-directors of the program -- either Professor Erick Erickson or Dr. Wilson F. Clark.

Table I
Summary of Environmental Education
Training Workshops

| Quarter | Course # | Env. Ed. Workshops | | Counsellor Training Workshops |
|-------------|--------------------|-----------------------|--------------------------|-------------------------------|
| | | # Undergrads Students | # Grad Students (Note 2) | # Students |
| Spring 1969 | (Note 1) Ed 493 | 14 | | |
| | Ed 593 | | 34 | |
| | Sc 302-2 | 17 | | |
| | Ed 491 | 2 | | |
| Fall 1969 | Ed 493 | 1 | 26 | |
| Spring 1970 | Ed 493 | 1 | 21 | |
| | Ed 493 | | | 45 |
| Fall 1970 | Ed 493 | 48 | 12 | |
| | Ed 491 | 2 | | |
| Winter 1971 | Ed 290 | | | 67 |
| | Ed 493 | | | 42 |
| Spring 1971 | Ed 493 | 29 | | |
| | Ed 593 | | 23 | |
| | Sc 493 | 4 | | |
| | Ed 490 | 4 | | |
| | Ed 290 | | | 25 |
| | | <u>122</u> | <u>116</u> | <u>179</u> |

Notes: 1. The variety of course numbers is not significant.
2. All in this column received graduate credit.

Table II

Table II

Summary of Billings Public Schools, and Record of Teachers
on contract 1970-71 who had at some time taken
the Environmental Education Workshop

| Name of the School (all data are for 1970-71 School Year) | Total # of Teachers and Admin. | Total # who had an E.E. Workshop | Total # of 6th grade rooms | # of 6th grade rooms at Camp S '71 | Total # children at camp S '71 | Total # Teachers at camp S '71 | Principal has taken E.E. Wksp. |
|---|--------------------------------------|-------------------------------------|------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|-------------------------------------|
| Elementary Schools | | | | | | | |
| Bench | 13 | 2 | 2 | -- | -- | -- | no |
| Bitterroot | 21 | 6 | 3 | 3 | 89 | 3 | no |
| Boulder | 19 | 3 | 3 | 3 | 95 | 3 | no |
| Broadwater | 21 | 5 | 3 | -- | -- | -- | yes |
| Burlington | 20 | 2 | 3 | -- | -- | -- | yes |
| Central Heights | 20 | 5 | 4 | 4 | 99 | 3 | yes |
| Eastern Elementary | 11 | 3 | 1 | 1 | 30 | 1 | yes |
| Garfield | 28 | 2 | 1 | -- | -- | -- | no |
| Grand | 16 | 5 | 5 | 5 | 134 | 5 | no |
| Highland | 17 | 4 | 4 | 4 | 98 | 3 | yes |
| McKinley | 13 | 1 | 2 | -- | -- | -- | no |
| Meadowlark | 20 | 4 | 1 | 1 | 22 | 1 | yes |
| Miles Avenue | 21 | 4 | 0 | -- | -- | -- | yes |
| Newman | 16 | 3 | 2 | 2 | 62 | 2 | no |
| North Park | 16 | 2 | 2 | -- | -- | -- | no |
| Orchard | 12 | 3 | 2 | -- | -- | -- | no |
| Poly Drive | 19 | 4 | 3 | 3 | 93 | 3 | no |
| Ponderosa | 19 | 5 | 3 | -- | -- | -- | no |
| Rimrock | 13 | 5 | 3 | 3 | 74 | 3 | yes |
| Rocky Elementary | 5 | 1 | 0 | -- | -- | -- | no |
| Rose Park | 19 | 7 | 3 | 3 | 68 | 3 | yes |
| Shiloh | 4 | 1 | 0 | -- | -- | -- | -- |
| Taft | 13 | 4 | 1+ | 1+ | 38 | 2 | yes |
| Washington | 20 | 2 | 3 | -- | -- | -- | yes |
| Totals for Elementary Schools | 395 | 83 | 54 | 33 | 902 | 32 | 11 of the 24 are yes |
| Others | | | | | | | |
| | Total # Teachers & Admin. | | # who have had an E.E. Wksp | | | | |
| Central Admin. Offices | 53 | | 4 | | | | |
| Billings Senior High | 104 | | 2 | | | | |
| Billings West High | 115 | | 0 | | | | |
| Lewis & Clark Junior High | 79 | | 2 | | | | |
| Lincoln Junior High | 70 | | 1 | | | | |
| Riverside Junior High | 49 | | 0 | | | | |
| Vo-Tech Center | 16 | | 0 | | | | |
| Will James Junior High | 50 | | 3 | | | | |
| | 536 | | 12 | | | | |

Spring 1971

Info Sheet for Environmental Education ProgramRoster of Staff

March 1971

| Staff Member, Address, Phone | Teaching Assignment (group 1,2,3, or 4) | Special Planning Assignment |
|--|--|--------------------------------|
| Prof. Elmer Andersen, EMC, 657-2344 | Geography Unit (1) | - Teacher Units |
| * Mr. Mike Chapman, 25 Avenue B, 259-6292 | Clark Backup (4) | - Time Sched. |
| Dr. Wilson Clark, EMC, 657-2344 | Plot Study (4) and Workshop Director | - Time Sched. |
| * Mr. Randy Coley, 723 Cook Ave. 248-8073 | Andersen Backup (1) | - Food Serv. Coord. |
| * Miss Sue Dunbar, 845 Wicks Lane, 259-1400 | Schoenthal Backup (2) | - Publicity |
| Prof. Erick Erickson, EMC, 657-2210 | Camp Director | - Overall |
| Mr. Dick Fick, Taft School, 259-4144 -- and 3534 Old Hardin Rd., 252-4318 | Mares/Grant Backup (3) | - Teacher Units |
| * Mr. Dan Fletcher, 1921 10th Ave N, 252-4705 | Mares/Grant Backup (3) | - Opening Camp |
| Prof. Roland Grant, EMC, 657-2344 | Geology Unit (3) | - Teacher Units |
| Dr. Helen Grilley, EMC, 657-2167 | Planning & Sociograms | - General planning |
| Mr. Ed Heiser, Principal, Rose Park School, 259-8771, and 1404 Cook Ave., 259-7116 | Ass't Camp Director | - Overall |
| * Mr. Jim Hicks, Blue Creek Route, 259-0638 | Andersen Backup (1) | - Opening Camp |
| * Mr. Dave Kirkness, 2303 Hewitt, 656-7430 | Clark Backup (4) | - Time Sched. |
| * Mr. Rick Klaboe, 315 Apsaruke Hall, EMC, 657-2606 | Geology Unit (3) | - Opening Camp |
| Mr. Tim Mares, Principal, Taft School, 259-4144, and 5412 Gene Sarazen Dr., 656-3784 | Geology Unit (3) | - Teacher Units |
| Mr. Charles Reed, EMC Elem School, 657-2210 -- and 1048 Parkhill, 259-1979 | Ass't to Erickson | - General |
| Dr. Norm Schoenthal, EMC, 657-2344 | Ecology Unit (2) | - Teacher Units |
| * Mr. Doug Shenkle, 516½ Miles Ave., 259-0698 | Schoenthal Backup (2) | - Transportation |
| * Mr. Clarence Stenberg, 1070 Judith Lane, 252-0478 | Andersen Backup (1) | - Opening Camp |
| * Mr. Jim Strickland, | Schoenthal Backup (2) | - Publicity |
| * Mr. Bob Thompson, 1415 Avenue B, 259-7254 | Clark Backup (4) | - Transportation |
| Dr. Paul Crellin, 1230 North 28 Street | Med. Dr. Coordinator | - M.D.'s |
| Dr. Helene Northcutt, EMC | Art Coordinator | - Art Program |

Spring 1971

Teachers' Workshop in Environmental Education
Introductory Information

Background, Objectives, Unifying Concepts

A. Background

This spring is the fifth year of the Environmental Education Program in Billings. This spring's Teachers' Workshop is the eighth of its kind to be offered. It is designed to help teachers become able to work in and with the rapidly expanding Environmental Education program in the public schools.

Immediately following this Workshop this spring, about 900 sixth graders from District #2 will each have a two-day camp experience, with solid field instruction in Environmental Education. Teachers of those sixth grade rooms selected for this spring have all had or will have had the Environmental Education Workshop, and will work with the workshop staff at camp when the children are at camp.

B. What the Workshop strives to do:

The objectives of this Workshop are these:

1. to help teachers become aware of the environmental problems we face.
2. to help them understand the challenge, responsibilities, and opportunities of Environmental Education for all grade levels.
3. to present fundamental information on basic resources and on man's handling of those resources.
4. to give practical illustrations of and actual experience with activities and studies which will contribute to a child's understanding of his environment and his relationship to it.
5. and to learn how to use the Process Approach as a strong learning tool utilizing a maximum of actual student participation.

C. Unifying Concepts

Throughout this Workshop, and throughout a teacher's efforts in Environmental Education there are some simple yet absolutely fundamental unifying concepts. These are as follows, and should be kept in mind constantly:

1. Living things are interdependent with one another and with their environment.
2. All organisms or populations of organisms are the product of their heredity and of their environment.
3. All organisms and environments are in constant change.

Spring 1971
 Teachers' Workshop in Environmental Education
 Info Sheet #1

Registration Information

A. Course Information

Course Title to use in registration: Env. Ed. Workshop for Teachers
 Course Number: Ed 493 (for those without a B.S. or B.A. degree -- all undergraduates)
 Course Credit: 3 credits
 Pre-requisite: none

B. Registration Information (be sure you use the correct category)

1. For undergraduates who now (Spring 1971) are already registered as EMC students

File an Add Card with Dr. Clark, then pay fees as in C below.

2. For graduate (post-bachelors degree) students who have previously attended EMC at any time.

File a pink "Re-admission" card, and pay fee below.

3. For graduate (post-bachelors degree) students who have never attended EMC.

File the completed Application for Admission, and pay fees below. The usual \$10 fee for first admission to EMC is NOT charged for this type of admission.

C. Fees

| | Instructional Fee | May 8, 9 Field Camp Fee | Total |
|---|----------------------|----------------------------|-------|
| (a) For students not now (Spring 1971) full time EMC students | 57.00 | 15.00 | 72.00 |
| (b) For students who now (Spring 1971) are full-time EMC students | 0.00 | 15.00 | 15.00 |

Make the \$57.00 check payable to Eastern Montana College.

Make the \$15.00 check payable to Env. Ed. Camp Acct., EMC.

D. Class Card

Your add card or admission documents will be turned in to the Registrar's Office. Packets will be made up, and ready for the second session. At the second session you will fill out the packet cards, and the class card will be inserted. For students using the Add Card, be sure this card is turned in to Dr. Clark -- not to the Registrar's Office, and he will then deliver it plus a class card to the Registrar.

Spring 1971

Appendix B

Teachers' Workshop in Environmental Education

Page 4

Info Sheet #2

Time Schedule

Thursday, March 25 -- 7:30 p.m. - 9:30 p.m.

Multipurpose Room, EMC

(a) Course Registration; (b) Introductory Comments -- Clark,
(c) Film and Discussion -- Grilley, (d) the Discovery/Inquiry Method -- Clark

Thursday, April 1 -- 7:00 p.m. - 9:00 p.m.

Multipurpose Room, EMC

Schoenthal in charge. Basic concepts in Ecology.
Simple tools, studies, experiments for exploring
ecosystems -- natural and manmade.

Thursday, April 8 -- 7:00 p.m. - 9:00 p.m.

Multipurpose Room, EMC

Clark in charge. Soil, air, and water -- the basis of all life.
Simple tools, studies, experiments for exploring the ground.

Thursday, April 15 -- 7:00 p.m. - 9:00 p.m.

Multipurpose Room, EMC

Andersen, Mares, Grant in charge.

Simple tools, studies, experiments for exploring the geological,
geographic, and climatic factors as they affect natural or man-made
ecosystems and man's use of the land and its resources.

Thursday, April 22 -- NOT A CLASS SESSION. This is for staff only, as a final
planning session for the April 24 field day. Staff is to meet at Taft
School at 7:00 p.m.

Saturday, April 24 -- 8:30 a.m. to 3:30 p.m.

All day field trip, entirely within the environs of Billings.
This will be held regardless of the weather (even snow). Come
dressed properly for the weather and for the field.

Bring your own lunch. Hot coffee will be supplied.

Adequate rest stops will be provided.

This is a trip by bus. MEET at 8:15 a.m., in parking lot south
of the EMC Campus School.

Thursday, April 29 -- 7:00 p.m. - 9:00 p.m.

Multipurpose Room, EMC

Erickson, Heiser, Grilley in charge.

Implementing an environmental education program.

Aspects of planning, curricula, management.

Saturday, May 8 and Sunday, May 9 -- Field Weekend

ALL are to be at the Lion's Camp, outside of Red Lodge, by 7:00 a.m.,
on Saturday for breakfast and the basic information on the Field Session,
and to stay through to the end of the field session about 3:30 p.m. on
Sunday. Full information (program, equipment, etc.) will be issued in a
subsequent Info Sheet.

Spring 1971
Teachers' Workshop in Environmental Education
Info Sheet #3

The Basis of Grading

We are unfortunately required to assign grades to all teachers and students taking this Workshop for credit. In the past we've tried various devices, such as the unit studies, some examinations, various papers, and so on. Those methods have been somewhat criticized by the students, and justifiably.

This session, the major emphasis of each session will be on individual student participation, at every session. We plan to involve everyone actively, with feedback to us in the form of the experiments, observations, interpretations, ideas, notes, and other things generated in each session.

To this end, and so that there will be no confusion, the following basis of grading has been jointly set up by the staff -- including the backup staff, all of whom recently have been through a teacher workshop. (Note that there are no blanket or automatic grades.)

Maximum grade of C -- may miss no more than two of the evening sessions, but must attend the April 24 field trip and the May 8, 9 field camp. Must fully participate in all sessions attended.

Maximum grade of B -- Full attendance (at all sessions), and full participation as determined by the instructors.

Maximum grade of A -- Full attendance (at all sessions) and full participation as determined by the instructors, plus satisfactory completion of one of the following three alternatives

- (1) Problem in applying Env. Ed. to a school situation.
- or (2) A professional paper dealing with Env. Ed.
- or (3) Teaching units covering three areas.

For these three alternatives, specific guidelines and criteria of acceptability will be issued by, respectively, (1) Clark, (2) Grilley, and (3) Schoenthal. Each final paper shall be read and judged by no less than three of the faculty. To be accepted, all papers must be turned in to Dr. Clark's office (room 103, 105, Science Building, EMC) on or before May 20. Course grades will be issued by at least the end of the quarter.

Spring 1971
Teachers' Workshop in Environmental Education
Info Sheet #4

Appendix B
Page 6

PROGRAM of the RED LODGE FIELD SESSIONS

Objective: to have each person experience and understand the field program that the sixth grade children go through.

Saturday, May 8

Be at the Lions Camp, south of Red Lodge, by 7:00 a.m.

- 7:15 a.m. Breakfast. Then get settled in a cabin.
- 8:15 Total group will be broken into four smaller groups.
See group assignments of General Info Sheet #5.
- 8:30 - 11:00 Group A - Schoenthal
Group B - Andersen
Group C - Mares and Grant (groups can take a coffee
Group D - Clark break in the middle)
- 11:15 Lunch
- 12:00 - 2:30 p.m. Group B - Schoenthal
Group C - Andersen
Group D - Mares and Grant
Group A - Clark
- 2:30 Coffee Break
- 3:00 - 5:30 Group C - Schoenthal
Group D - Andersen
Group A - Mares and Grant
Group B - Clark
- 5:30 - 6:30 Free time. Chance to examine publications on display.
- 6:30 Dinner
- 7:45 Assembly Hall
Discussion of other aspects of environmental education, of camp management, of the place of such programs in schools. Full faculty.
- 8:45 Fun time. Dance

Sunday, May 9

- 6:45 Rising bell.
- 7:15 a.m. Breakfast
- 8:15 - 10:45 Field Sessions
Group D - Schoenthal
Group A - Andersen
Group B - Mares and Grant
Group C - Clark
- 11:00 - 11:45 Non-denominational Church Service -- Pastor John Lee
- 12:00 Lunch
- 12:30 - 1:00 Pack up gear and load your cars.
Sweep out cabins; clean washrooms.
- 1:15 Meet at Assembly Hall
Final session. Evaluation
Awarding of Certificates
- 2:15 End of camp session

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 1, on Monday, May 10, and Tuesday, May 11.

- School: Highland,
Principal: Brinkman, Teacher Pike, # children 26 (boys 11, girls 15)
- School: Rose Park,
Principal: Heiser, Teacher Frank Dell, # children 22 (boys 11, girls 11)
- School: Eastern,
Principal: Erickson, Teacher Reed, # children 30 (boys 19, girls 11)
- School: Meadowlark,
Principal: Wilson, Teacher Wilson, # children 22 (boys 10, girls 12)
- Totals ----- 100 (boys 51, girls 49)

Director for this session: Erick Erickson. Medical Doctor for this session: Dr. Crellin
Travel to camp.

On Sunday, May 9, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Monday, May 10

- 7:00 a.m. Roll out of bed
- 7:30 Breakfast and Cabin Duty
- 8:00 - 8:30 Kamp Kapers (cleanup)
- 8:30 - 8:45 Orientation, and short inspirational program
- 8:50 - 11:10 Field Instructional Groups
- Group A - Geographic studies -- Jim Hicks, Robert Wilson
- Group B - Geologic studies ---- Dan Fletcher, Prof. Grant, Frank Dell
- Group C - Ecologic studies ---- Charles Reed, Dr. Schoenthal, Jerry Pike
- Group D - Plot studies ----- Mike Chapman, Dr. Clark, Dave Kirkness
- 11:15 - 12:00 Arts and Crafts -- Dr. Helen Northcutt, Vicki Berentson (group A, B)
- First Aid Instruction -- Dr. Crellin (group C, D)
- 12:00 noon Cleanup for lunch
- 12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.
- 1:30 - 3:45 Instructional Groups
- Group B - Geographic studies -- Jim Hicks, Robert Wilson
- Group C - Geologic studies ---- Dan Fletcher, Prof. Grant, Frank Dell
- Group D - Ecologic studies ---- Charles Reed, Dr. Schoenthal, Jerry Pike
- Group A - Plot studies -- Mike Chapman, Dr. Clark



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor. Complete Art work (group A & B only) started this morning.
Dr. Northcutt, Vicki Berentson overnite: Lynette Lorang,
Phyllis Ridi
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Tuesday, May 11

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk, Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Jim Hicks, Bob Wilson
Group D - Geologic studies ---- Dan Fletcher, Frank Dell
Group A - Ecologic studies ---- Jim Strickland, Sue Dunbar, Jerry Pike
Group B - Plot studies ----- Mike Chapman
- 11:15 - 12:00 Arts and Crafts -- Lynette Lorang, Phyllis Ridi (group C, D)
First Aid Instruction -- Dr. Crellin (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Jim Hicks, Bob Wilson
Group A - Geologic studies ---- Dan Fletcher, Frank Dell
Group B - Ecologic studies ---- Jim Strickland, Sue Dunbar, Jerry Pike
Group C - Plot studies ----- Mike Chapman
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Lynette Lorang, Phyllis Ridi (also over nite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- out 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 2, on Wednesday, May 12, and Thursday, May 13.

School: Boulder,
Principal: Lundgren, Teacher Dempsey, # children 31 (boys 18, girls 13)

School: Newman,
Principal: Richens, Teacher Goldberg, # children 31 (boys 17, girls 14)

School: Poly,
Principal: Croff, Teacher Sayler, # children 31 (boys 13, girls 18)

School: _____,
Principal: _____, Teacher _____, # children _____ (boys _____, girls _____)

Totals ----- 93 (boys 48, girls 45)

Director for this session: Ed Heiser. Medical Doctor for this session: Dr. J. Anderson
Travel to camp.

On Tuesday, May 11, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Wednesday, May 12

7:00 a.m. Roll out of bed

7:30 Breakfast and Cabin Duty

8:00 - 8:30 Kamp Kapers (cleanup)

8:30 - 8:45 Orientation, and short inspirational program

8:50 - 11:10 Field Instructional Groups

Group A - Geographic studies -- Jim Hicks, Dorothy Dempsey

Group B - Geologic studies ---- Tim Mares, Roberta Sayler

Group C - Ecologic studies ---- Clyde Goldberg

Group D - Plot studies ----- Dave Kirkness

11:15 - 12:00 Arts and Crafts -- Andrea Woltersdorf, Don Hanson (group A, B)

First Aid Instruction -- Dr. Anderson (group C, D)

12:00 noon Cleanup for lunch

12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.

1:30 - 3:45 Instructional Groups

Group B - Geographic studies -- Jim Hicks, Dorothy Dempsey

Group C - Geologic studies ---- Tim Mares, Roberta Sayler

Group D - Ecologic studies ---- Clyde Goldberg

Group A - Plot studies ----- Bob Thompson



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor. Complete Art work (group A & B only) started this morning.
Andrea Woltersdorf, Don Hanson
- Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Thursday, May 13

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk, Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
- Group C - Geographic studies -- Jim Hicks, Dorothy Dempsey
 - Group D - Geologic studies ---- Rick Klaboe, Roberta Saylor
 - Group A - Ecologic studies ---- Sue Dunbar, Clyde Goldberg
 - Group B - Plot studies ----- Dave Kirkness
- 11:15 - 12:00 Arts and Crafts -- Andrea Woltersdorf, Don Hanson (group C, D)
First Aid Instruction -- Dr. Anderson (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
- Group D - Geographic studies -- Jim Hicks, Dorothy Dempsey
 - Group A - Geologic studies ---- Rick Klaboe, Roberta Saylor
 - Group B - Ecologic studies ---- Sue Dunbar, Clyde Goldberg
 - Group C - Plot studies ----- Dave Kirkness
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Andrea Woltersdorf, Don Hanson (also over nite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
- Go to cabins. Pack completely. Tag each piece of luggage with tag bearing child's name, school, and session number.
- Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 3, on Friday, May 14, and Saturday, May 15.

- School: Central Heights,
Principal: Langstaff, Teacher Halvor, # children 25 (boys 11, girls 14)
- School: Newman,
Principal: Richins, Teacher Dixie Pike, # children 31 (boys 17, girls 14)
- School: Highland,
Principal: Brinkman, Teacher Jerry Pike, # children 23 (boys 13, girls 10)
- School: Rose Park,
Principal: Heiser, Teacher Zerr, # children 24 (boys 10, girls 14)
- Totals ----- 103 (boys 51, girls 52)

Director for this session: Erick Erickson. Medical Doctor for this session: (to be assigned)
Travel to camp.

On Thursday, May 13, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Friday, May 14

- 7:00 a.m. Roll out of bed
- 7:30 Breakfast and Cabin Duty
- 8:00 - 8:30 Kamp Kapers (cleanup)
- 8:30 - 8:45 Orientation, and short inspirational program
- 8:50 - 11:10 Field Instructional Groups
- Group A - Geographic studies -- Jim Hicks, Dixie Pike
- Group B - Geologic studies ---- Tim Mares, Janet Halvor
- Group C - Ecologic studies ---- Mrs. Zerr, Dr. Schoenthal
- Group D - Plot studies ----- Mike Chapman, Dave Kirkness, Jerry Pike
- 11:15 - 12:00 Arts and Crafts -- Andrea Woltersdorf, Don Hanson (group A, B)
- First Aid Instruction -- _____ (group C, D)
- 12:00 noon Cleanup for lunch
- 12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.
- 1:30 - 3:45 Instructional Groups
- Group B - Geographic studies -- Jim Hicks, Dixie Pike
- Group C - Geologic studies ---- Tim Mares, Janet Halvor
- Group D - Ecologic studies ---- Mrs. Zerr, Dr. Schoenthal
- Group A - Plot studies ---- Mike Chapman, Dave Kirkness, Jerry Pike



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor.
Complete Art work (group A & B only) started this morning.
Andrea Woltersdorf, Don Hansen with Margaret Fitzgerald over nite
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Saturday, May 15

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk,
Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Randy Coley, Prof. Andersen, Dixie Pike
Group D - Geologic studies ---- Dick Fick, Dan Fletcher, Janet Halvor
Group A - Ecologic studies ---- Jim Strickland, Dr. Schoenthal, Mrs. Zerr
Group B - Plot studies ----- Dave Kirkness, Mike Chapman, Jerry Pike
- 11:15 - 12:00 Arts and Crafts -- Margaret Fitzgerald, Judy Fischer (group C, D)
First Aid Instruction -- _____ (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Randy Coley, Prof. Andersen, Dixie Pike
Group A - Geologic studies ---- Dick Fick, Dan Fletcher, Janet Halvor
Group B - Ecologic studies ---- Jim Strickland, Dr. Schoenthal, Mrs. Zerr
Group C - Plot studies ----- Dave Kirkness, Mike Chapman, Jerry Pike
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Margaret Fitzgerald, Judy Fischer (overnite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag
bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 4, on Sunday, May 16, and Monday, May 17.

School: Grand,
Principal: Wynn, Teacher McDonald, # children 27 (boys 11, girls 16)

School: Boulder,
Principal: Lundgren, Teacher O'Connor, # children 32 (boys 15, girls 17)

School: Rose Park,
Principal: Heiser, Teacher Rimmer, # children 22 (boys 9, girls 13)

School: _____,
Principal: _____, Teacher _____, # children _____ (boys _____, girls _____)

Totals ----- 81 (boys 35, girls 46)

Director for this session: Ed Heiser. Medical Doctor for this session: Dr. Harr

Travel to camp.

On Saturday, May 15, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall. Cabin assignments. Get settled. Brief campfire program. Cocoa and snack served. Lights out at 9:30 p.m.

Sunday, May 16

7:00 a.m. Roll out of bed

7:30 Breakfast and Cabin Duty

8:00 - 8:30 Kamp Kapers (cleanup)

8:15 - 8:45 Inter-denominational Sunday Service, conducted by Pastor John Lee.

8:50 - 11:10 Field Instructional Groups

Group A - Geographic studies -- Randy Coley, Prof. Andersen, Elsie O'Connor

Group B - Geologic studies ---- Dick Fick, Dan Fletcher, Aletha McDonald

Group C - Ecologic studies ---- J. Strickland, Dr. Schoenthal, D. Rimmer

Group D - Plot studies ----- Mike Chapman, Dave Kirkness

11:15 - 12:00 Arts and Crafts -- Kim Bruttomesso, Judy Fischer, Marilyn Stebbins (group A, B)

First Aid Instruction -- Dr. Harr (group C, D)

12:00 noon Cleanup for lunch

12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.

1:30 - 3:45 Instructional Groups

Group B - Geographic studies -- Randy Coley, Prof. Andersen, Elsie O'Connor

Group C - Geologic studies ---- Dick Fick, Dan Fletcher, Aletha McDonald

Group D - Ecologic studies ---- J. Strickland, Dr. Schoenthal, D. Rimmer

Group A - Plot studies ----- Mike Chapman, Dave Kirkness



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor. Complete Art work (group A & B only) started this morning.
Kim Bruttomesso, Judy Fischer, Marilyn Stebbins (overnite)
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Monday, May 17

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk, Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Jim Hicks
Group D - Geologic studies ---- Tim Mares, Aletha McDonald
Group A - Ecologic studies ---- Mrs. O'Connor, Dorothy Rimmer
Group B - Plot studies ----- Mike Chapman, Dave Kirkness
- 11:15 - 12:00 Arts and Crafts -- Betty Johnson, Jack Haker (group C, D)
First Aid Instruction -- Dr. Harr (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Jim Hicks
Group A - Geologic studies ---- Tim Mares, Aletha McDonald
Group B - Ecologic studies ---- Mrs. O'Connor, Dorothy Rimmer
Group C - Plot studies ----- Mike Chapman
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Betty Johnson, Jack Haker (both overnite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 5, on Tuesday, May 18, and Wednesday, May 19.

- School: Grand,
Principal: Wynn, Teacher Black, # children 28 (boys 14, girls 14)
- School: Central Heights,
Principal: Langstaff, Teacher Metzger, # children 25 (boys 13, girls 12)
- School: Highland,
Principal: Brinkman, Teacher McCabe, # children 23 (boys 12, girls 11)
- School: Central Heights,
Principal: Langstaff, Teacher Clemens, # children 24 (boys 12, girls 12)
- Totals ----- 100 (boys 51, girls 49)

Director for this session: Charles Reed. Medical Doctor for this session: (to be assigned)

Travel to camp.

On Monday, May 17, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall. Cabin assignments. Get settled. Brief campfire program. Cocoa and snack served. Lights out at 9:30 p.m.

Tuesday, May 18

- 7:00 a.m. Roll out of bed
- 7:30 Breakfast and Cabin Duty
- 8:00 - 8:30 Kamp Kapers (cleanup)
- 8:30 - 8:45 Orientation, and short inspirational program
- 8:50 - 11:10 Field Instructional Groups
- Group A - Geographic studies -- Jim Hicks, Maria Metzger
- Group B - Geologic studies ---- Rick Klaboe, Helen McCabe
- Group C - Ecologic studies ---- Jim Strickland, Leslie Clemens
- Group D - Plot studies ----- Bob Thompson, James Black
- 11:15 - 12:00 Arts and Crafts -- Betty Johnson, Jack Haker (group A, B)
- First Aid Instruction -- _____ (group C, D)
- 12:00 noon Cleanup for lunch
- 12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.
- 1:30 - 3:45 Instructional Groups
- Group B - Geographic studies -- Jim Hicks, Maria Metzger
- Group C - Geologic studies ---- Rick Klaboe, Helen McCabe
- Group D - Ecologic studies ---- Jim Strickland, Leslie Clemens
- Group A - Plot studies ---- Bob Thompson, James Black



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor.
Complete Art work (group A & B only) started this morning.
Betty Johnson, Jack Haker, Laura Brue (overnite)
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Wednesday, May 19

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk.
Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
- | | |
|---------------------------------|---|
| Group C - Geographic studies -- | <u>Jim Hicks, Maria Metzger</u> |
| Group D - Geologic studies ---- | <u>Tim Mares, Helen McCabe</u> |
| Group A - Ecologic studies ---- | <u>Dr. Schoenthal, Leslie Clemens</u> |
| Group B - Plot studies ----- | <u>Dave Kirkness, Bob Thompson, James Black</u> |
- 11:15 - 12:00 Arts and Crafts -- Laura Brue, Serina Becker (group C, D)
First Aid Instruction -- _____ (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
- | | |
|---------------------------------|---------------------------------------|
| Group D - Geographic studies -- | <u>Jim Hicks, Maria Metzger</u> |
| Group A - Geologic studies ---- | <u>Tim Mares, Helen McCabe</u> |
| Group B - Ecologic studies ---- | <u>Dr. Schoenthal, Leslie Clemens</u> |
| Group C - Plot studies ----- | <u>Bob Thompson, James Black</u> |
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Laura Brue, Serina Becker (overnite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
- Go to cabins. Pack completely. Tag each piece of luggage with tag bearing child's name, school, and session number.
- Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 6, on Thursday, May 20, and Friday, May 21.

- School: Boulder,
Principal: Lundgren, Teacher Green, # children 32 (boys17, girls15)
- School: Central Heights,
Principal: Langstaff, Teacher Halvor, # children 25 (boys13, girls12)
- School: Grand,
Principal: Wynn, Teacher Krimmer, # children 26 (boys13, girls13)
- School: Rimrock,
Principal: Lane, Teacher Pederson, # children 25 (boys13, girls12)
- Totals ----- 108 (boys56, girls52)

Director for this session: Ed Heiser. Medical Doctor for this session: Dr. Yenke
Travel to camp.

On Wednesday, May 19, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Thursday, May 20

- 7:00 a.m. Roll out of bed
- 7:30 Breakfast and Cabin Duty
- 8:00 - 8:30 Kamp Kapers (cleanup)
- 8:30 - 8:45 Orientation, and short inspirational program
- 8:50 - 11:10 Field Instructional Groups
- Group A - Geographic studies -- Jim Hicks, Louise Pederson
 - Group B - Geologic studies ---- Roland Grant, Rick Klaboe, Walter Krimmer
 - Group C - Ecologic studies ---- Sue Dunbar, Archie Green
 - Group D - Plot studies ----- Bob Thompson, Janet Halvor
- 11:15 - 12:00 Arts and Crafts -- Karen Grinde, Winnie Van Swearingen (group A, B)
First Aid Instruction -- Dr. Yenke (group C, D)
- 12:00 noon Cleanup for lunch
- 12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.
- 1:30 - 3:45 Instructional Groups
- Group B - Geographic studies -- Jim Hicks, Louise Pederson
 - Group C - Geologic studies ---- Roland Grant, Rick Klaboe, Walter Krimmer
 - Group D - Ecologic studies ---- Sue Dunbar, Archie Green
 - Group A - Plot studies ----- Bob Thompson, Janet Halvor

- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor.
Complete Art work (group A & B only) started this morning.
Karen Grinde, Winnie van Swearingen (both overnite)
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Friday, May 21

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk,
Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Jim Hicks, Louise Pederson
Group D - Geologic studies ---- Roland Grant, Walter Krimmer
Group A - Ecologic studies ---- Archie Green
Group B - Plot studies ----- Bob Thompson, Janet Halvor
- 11:15 - 12:00 Arts and Crafts -- Karen Grinde, Winnie van Swearingen (group C, D)
First Aid Instruction -- Dr. Yenko (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Jim Hicks, Louise Pederson
Group A - Geologic studies ---- Roland Grant, Walter Krimmer
Group B - Ecologic studies ---- Archie Green
Group C - Plot studies ----- Bob Thompson, Janet Halvor
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Karen Grinde, Winnie van Swearingen (overnite ?)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag
bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 7, on Saturday, May 22, and Sunday, May 23.

- School: Bitterroot,
Principal: Easton, Teacher Iams, # children 30 (boys 14, girls 16)
 - School: Poly,
Principal: Groff, Teacher Jellison, # children 32 (boys 14, girls 18)
 - School: Taft,
Principal: Mares, Teacher Schonkwiler, # children 38 (boys 18, girls 20)
 - School: _____,
Principal: _____, Teacher _____, # children _____ (boys _____, girls _____)
- Totals ----- 100 (boys 46, girls 54)

Director for this session: Erick Erickson. Medical Doctor for this session: Dr. Wierzbinski
Travel to camp.

On Friday, May 21, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Saturday, May 22

- 7:00 a.m. Roll out of bed
- 7:30 Breakfast and Cabin Duty
- 8:00 - 8:30 Kamp Kapers (cleanup)
- 8:30 - 8:45 Orientation, and short inspirational program
- 8:50 - 11:10 Field Instructional Groups
 - Group A - Geographic studies -- Randy Coley, Prof. Andersen, Dan Jellison
 - Group B - Geologic studies ---- Dick Fick, Prof. Grant, Violet Schonkwiler
 - Group C - Ecologic studies ---- Jim Strickland, Dr. Schoenthal
 - Group D - Plot studies ----- Dave Kirkness, Jeff Iams
- 11:15 - 12:00 Arts and Crafts -- Anne Gilliam, Glen Close (group A, B)
First Aid Instruction -- Dr. Wierzbinski (group C, D)
- 12:00 noon Cleanup for lunch
- 12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.
- 1:30 - 3:45 Instructional Groups
 - Group B - Geographic studies -- Randy Coley, Prof. Andersen, Dan Jellison
 - Group C - Geologic studies ---- Dick Fick, Prof. Grant, Violet Schonkwiler
 - Group D - Ecologic studies ---- Jim Strickland, Dr. Schoenthal
 - Group A - Plot studies ----- Dave Kirkness, Jeff Iams



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor. Complete Art work (group A & B only) started this morning.
Anne Gilliam, Glen Close (both overnite)
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Sunday, May 23

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk, Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:15 - 8:45 Inter-denominational Sunday Service, conducted by Father Lester.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Randy Coley, Prof. Andersen, Dan Jellison
Group D - Geologic studies ---- Dick Fick, Prof. Grant, Violet Schonkwiler
Group A - Ecologic studies ---- Jim Strickland, Sue Dunbar
Group B - Plot studies ----- Dave Kirkness, Jeff Iams
- 11:15 - 12:00 Arts and Crafts -- Anne Gilliam, Glen Close (group C, D)
First Aid Instruction -- Dr. Wierzbinski (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Randy Coley, Prof. Andersen, Dan Jellison
Group A - Geologic studies ---- Dick Fick, Prof. Grant, Violet Schonkwiler
Group B - Ecologic studies ---- Jim Strickland, Sue Dunbar
Group C - Plot studies ----- Dave Kirkness, Jeff Iams
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Anne Gilliam, Glen Close, Vicki Berentson (overnite)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 8, on Monday, May 24, and Tuesday, May 25.

School: Rimrock,
Principal: Lane, Teacher Craig, # children 25 (boys 14, girls 11)

School: Rimrock,
Principal: Lane, Teacher Abbott, # children 26 (boys 13, girls 13)

School: Grand,
Principal: Wynta, Teacher Holmgren, # children 27 (boys 13, girls 14)

School: Poly,
Principal: Croff, Teacher Tubman, # children 30 (boys 10, girls 20)

Totals ----- 108 (boys 50, girls 58)

Director for this session: Charles Reed. Medical Doctor for this session: Dr. Hartman
Travel to camp.

On Sunday, May 23, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall. Cabin assignments. Get settled. Brief campfire program. Cocoa and snack served. Lights out at 9:30 p.m.

Monday, May 24

7:00 a.m. Roll out of bed

7:30 Breakfast and Cabin Duty

8:00 - 8:30 Kamp Kapers (cleanup)

8:30 - 8:45 Orientation, and short inspirational program

8:50 - 11:10 Field Instructional Groups

Group A - Geographic studies -- Randy Coley, Jim Hicks, Kathleen Tubman

Group B - Geologic studies ---- Dan Fletcher, Patti Abbott

Group C - Ecologic studies ---- Sue Dunbar, Laura Holmgren

Group D - Plot studies ----- Dave Kirkness, Bob Thompson, Jack Craig

11:15 - 12:00 Arts and Crafts -- Vicki Berentson, Mary Ann Fabian (group A, B)

First Aid Instruction -- Dr. Hartman (group C, D)

12:00 noon Cleanup for lunch

12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.

1:30 - 3:45 Instructional Groups

Group B - Geographic studies -- Randy Coley, Jim Hicks, Kathleen Tubman

Group C - Geologic studies ---- Dan Fletcher, Patti Abbott

Group D - Ecologic studies ---- Sue Dunbar, Laura Holmgren

Group A - Plot studies ----- Bob Thompson, Jack Craig



- 4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor.
Complete Art work (group A & B only) started this morning.
Vicki Berentson, Mary Ann Fabian (overnite)
Organized and Supervised Recreation.
- 6:00 Supper, and cleanup
Then free time until campfire
- 7:30 - 9:15 Campfire program
- 9:15 Cocoa and snack
- 9:30 Lights out

Tuesday, May 25

- 6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk,
Flower Walk, or just a nature hike.
- 7:00 Roll out of bed
- 7:30 Breakfast
- 8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty
- 8:30 - 8:45 Short inspirational program.
- 8:50 - 11:10 Instructional Groups
Group C - Geographic studies -- Randy Coley, Jim Hicks, Kathleen Tubman
Group D - Geologic studies ---- Dan Fletcher, Prof. Grant, Patti Abbott
Group A - Ecologic studies ---- Sue Dunbar, Jim Strickland, Laura Holmgren
Group B - Plot studies ----- Bob Thompson, Jack Craig
- 11:15 - 12:00 Arts and Crafts -- Mary Ann Fabian, Krys Dahlberg (group C, D)
First Aid Instruction -- Dr. Hartman (group A, B)
- 12:15 - 1:30 Lunch, cleanup, and free time
- 1:30 - 3:45 Instructional Groups
Group D - Geographic studies -- Randy Coley, Jim Hicks, Kathleen Tubman
Group A - Geologic studies ---- Dan Fletcher, Prof. Grant, Patti Abbott
Group B - Ecologic studies ---- Sue Dunbar, Jim Strickland, Laura Holmgren
Group C - Plot studies ----- Bob Thompson, Jack Craig
- 4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Mary Ann Fabian, Krys Dahlberg (overnite ?)
- 5:15 Cleanup for Dinner
- 5:30 - 6:00 Dinner and Kamp Kapers
- 6:00 Pack up
Go to cabins. Pack completely. Tag each piece of luggage with tag
bearing child's name, school, and session number.
Take all luggage to porch of Staff Hall (not Assembly Hall).
- 6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.
- 7:15 Buses leave.
- about 8:45 p.m. Buses arrive at children's own schools.

Environmental Education Program, Spring 1971
Billings District #2 and Eastern Montana College

Session # 9, on Wednesday, May 26, and Thursday, May 27.

School: Highland,
Principal: Brinkman, Teacher Anderson, # children 26 (boys 15, girls 11)

School: Bitterroot,
Principal: Easton, Teacher Fradley, # children 30 (boys 13, girls 17)

School: Bitterroot,
Principal: Easton, Teacher Smith, # children 29 (boys 14, girls 15)

School: Grand,
Principal: Wynn, Teacher Hug, # children 26 (boys 13, girls 13)

Totals ----- 111 (boys 55, girls 56)

Director for this session: Erick Erickson. Medical Doctor for this session: Dr. Schwidde
Travel to camp.

On Tuesday, May 25, children are to have supper at home, and be at their own school by 5:00 p.m., with all their equipment. Teachers and some counsellors will ride the buses with the children. Each item (sleeping bag, suitcase, etc.) is to bear a tag with the child's name, school, and session number.

Buses arrive at Camp about 7:00 p.m. Unload at Assembly Hall.
Cabin assignments. Get settled. Brief campfire program.
Cocoa and snack served.
Lights out at 9:30 p.m.

Wednesday, May 26

7:00 a.m. Roll out of bed

7:30 Breakfast and Cabin Duty

8:00 - 8:30 Kamp Kapers (cleanup)

8:30 - 8:45 Orientation, and short inspirational program

8:50 - 11:10 Field Instructional Groups

Group A - Geographic studies -- Jim Hicks, Diane Fradley

Group B - Geologic studies ---- Dan Fletcher, Tim Mares, Mildred Hug

Group C - Ecologic studies ---- Sue Dunbar, Elizabeth Smith

Group D - Plot studies ----- Dave Kirkness, Lorraine Anderson

11:15 - 12:00 Arts and Crafts -- Karen Grinde, Winnie van Swearingen (group A, B)

First Aid Instruction -- Dr. Schwidde (group C, D)

12:00 noon Cleanup for lunch

12:15 - 1:30 Lunch, Kamp Kapers, cleanup and a bit of free time.

1:30 - 3:45 Instructional Groups

Group B - Geographic studies -- Jim Hicks, Diane Fradley

Group C - Geologic studies ---- Dan Fletcher, Tim Mares, Mildred Hug

Group D - Ecologic studies ---- Sue Dunbar, Elizabeth Smith

Group A - Plot studies --- 48 --- Bob Thompson, Lorraine Anderson

4:00 - 6:00 Free time and Recreation. Write letters. Hike with a counsellor.
Complete Art work (group A & B only) started this morning.
Karen Grinde, Winnie van Swearingen (both overnite)
Organized and Supervised Recreation.

6:00 Supper, and cleanup
Then free time until campfire

7:30 - 9:15 Campfire program

9:15 Cocoa and snack

9:30 Lights out

Thursday, May 27

6:30 Morning hike led by one of the staff. Optional. May be a Bird Walk,
Flower Walk, or just a nature hike.

7:00 Roll out of bed

7:30 Breakfast

8:00 - 8:30 Kamp Kapers -- cleanup and cabin duty

8:30 - 8:45 Short inspirational program.

8:50 - 11:10 Instructional Groups

| | |
|---------------------------------|--|
| Group C - Geographic studies -- | <u>Jim Hicks, Diane Fradley</u> |
| Group D - Geologic studies ---- | <u>Dan Fletcher, Mildred Hug</u> |
| Group A - Ecologic studies ---- | <u>Sue Dunbar, Elizabeth Smith</u> |
| Group B - Plot studies ----- | <u>Bob Thompson, Lorraine Anderson</u> |

11:15 - 12:00 Arts and Crafts -- Karen Grinde, Winnie van Swearingen (group C, D)
First Aid Instruction -- Dr. Schwidde (group A, B)

12:15 - 1:30 Lunch, cleanup, and free time

1:30 - 3:45 Instructional Groups

| | |
|---------------------------------|--|
| Group D - Geographic studies -- | <u>Jim Hicks, Diane Fradley</u> |
| Group A - Geologic studies ---- | <u>Dan Fletcher, Mildred Hug</u> |
| Group B - Ecologic studies ---- | <u>Sue Dunbar, Elizabeth Smith</u> |
| Group C - Plot studies ----- | <u>Bob Thompson, Lorraine Anderson</u> |

4:00 - 5:15 Recreation (organized and supervised games) and free time
Art free time for Groups C & D.
Karen Grinde, Winnie van Swearingen

5:15 Cleanup for Dinner

5:30 - 6:00 Dinner and Kamp Kapers

6:00 Pack up

Go to cabins. Pack completely. Tag each piece of luggage with tag
bearing child's name, school, and session number.

Take all luggage to porch of Staff Hall (not Assembly Hall).

6:45 Buses arrive with next group of children. Unload at Assembly Hall.
Buses then go to Staff Hall and load those returning to Billings.

7:15 Buses leave.

about 8:45 p.m. Buses arrive at children's own schools.



Attendance Record by Schools and Years

| School | Spring 1967 | Spring 1968 | Spring 1969 | Spring 1970 | Spring 1971 | Totals |
|---------------|----------------|----------------|----------------|----------------|----------------|--------------|
| Ashland | | | 11 | | | 11 |
| Bitterroot | | | 49 | 63 | 89 | 201 |
| Boulder | | | | 102 | 95 | 197 |
| Central Hts. | | | | | 99 | 99 |
| Eastern Elem. | 30 | 28 | 25 | 27 | 30 | 140 |
| Grand | | | | 30 | 134 | 164 |
| Highland | | | | 120 | 98 | 218 |
| Meadowlark | | | | | 22 | 22 |
| Newman | | | | 48 | 62 | 110 |
| Poly Drive | | | | | 93 | 93 |
| Rimrock | | | 57 | 66 | 74 | 197 |
| Rose Park | | | | | 68 | 68 |
| Taft | | 24 | 48 | 29 | 38 | 139 |
| Totals | 30 | 52 | 190 | 485 | 902 | 1,659 |

Financial Aspects of the
Environmental Education Program

| Item | Spring 1967 | Spring 1968 | Spring 1969 | Spring 1970 | Spring 1971 |
|-----------------------------|----------------|----------------|----------------|----------------|----------------|
| Transportation | | \$ 70.00 | \$ 426.80 | \$ 1,437.00 | \$ 2,191.80 |
| Food | | 519.16 | 1,225.00 | 2,530.23 | 3,345.81 |
| Kitchen Services | | 120.00 | 700.00 | 1,434.00 | 2,245.00 |
| Insurance | | 43.55 | 90.00 | 239.50 | 544.00 |
| Supplies and Camp Rental | | 64.00 | 80.00 | 289.50 | 1,000.00 |
| Other Expenses | | | | 502.05 | 661.17 |
| Total Costs | | \$ 816.71 | \$ 2,521.80 | \$ 6,432.28 | \$ 9,987.78 |
| Total # children | 30 | 52 | 190 | 485 | 902 |
| Approx. Cost/Child | | \$ 27.22 | \$ 13.27 | \$ 13.26 | \$ 11.07* |

* \$ 11.07/child was cost based on total children planned for.
Because of "no-shows", the cost per child actually in camp was \$ 12.37.

BROAD CURRICULUM CONTENT of a K-12 ENVIRONMENTAL EDUCATION PROGRAM

