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AN ANALYSIS OF COUNTY AND COMMUNITY RESOURCES AVAILABLE

FOR SOCIAL STUDIES AND SCIENCE CLASSES

IN THE BISBEE, ARIZONA, AREA

A Thesis

Presented to

the Graduate Faculty

Central Washington State College

In Partial Fulfillment

of the Requirements for the Degree

Master of Education

by

Lulu G. Smith

August, 1968

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APPROVED FOR THE GRADUATE FACULTY

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CHAPTER I

THE PROBLEM AND DEFINITIONS OF TERMS USED

Some schools in the Bisbee, Arizona, area make limited use of county and community resources. It is believed that if the schools had a better knowledge of the county and community resources available for use and of their accessibility, more use would be made of these resources. It is further believed that the use of such resources enriches the curriculum, develops student interest in the fields of social studies and science, and creates better community relations.

I. THE PROBLEM

Statement of the Problem

It is the purpose of this study to determine some county and community resources available for use in the social studies and science classes of the elementary schools in the Bisbee, Arizona, area.

Assumption

The Bisbee, Arizona, area has many resources which could be available for use in social studies and science classes in the elementary schools.

Method

The descriptive method is used in this study. Resources discovered have been examined and reported as they exist.

II. LIMITATIONS OF THE STUDY

This collection of resources is not a complete list of all resources, but it is a report of those known to exist at the present time. The collection will need to be revised whenever changes in the availability of listed resources occur or whenever new resources are discovered.

All the uses of the resources gathered in this study are not mentioned. Teachers will need to decide for themselves whether the listed resources would be worthwhile in their situations. Also, social studies and science resources overlap so much that it is difficult to tell where one leaves off and the other begins. Here again, teachers will need to evaluate and decide which resources would be suitable for their particular group. They will need to choose those resources which are pertinent, helpful, and of easy access. All aids to learning have certain limitations which would make them unwise under certain conditions. For example, if the specific purpose of a certain group of students was to find out more about copper mining, it would not be of much value to visit archeological diggings. In like manner, most of these resources listed have limitations for use. These limitations depend on the particular group of pupils, their characteristics, maturity, interest, and the specific purposes of the group.

III. DEFINITIONS OF TERMS USED

Social Science

The branch of knowledge dealing with the various phases of human society, relationships, and institutional organizations concerned with human existence.

Social Studies

That part of the social science subject matter dealing with human relationships on the elementary level. It is the field of studies dealing with civics, history, and geography which make up a part of the school curriculum.

History

That part of the social science subject matter dealing with or giving a narrative of past events showing those events as steps in the sequence of human activities.

Science

That part of the school curriculum which deals with the biological and physical sciences, such as sea life, soils, rocks and minerals, stars, etc.

Community Resources

Those things in the community outside the schools which have educational value for the schools as libraries, museums, courts, parks, banks, industries, etc. Outstanding individuals, their collections, and other human resources would be included.

Field Trips

A school walk or trip arranged by the teacher or another school official for educational purposes. Field trips are especially designed for study and learning on the part of the students.

IV. OVERVIEW OF REMAINING CHAPTERS

Chapter II of this study presents briefly a review of the literature related to (1) the history and value of field trips, and (2) the problem of community resources, their use and value in social studies and science classes.

Chapter III reviews some of the history of Cochise County and the Bisbee, Arizona, area in its relation to county and community resources. In the first part of Chapter IV, the procedures used in this study to locate county and community resources which would be of value in social studies and/or science classes are explained. In the last part of the chapter, the reader is referred to appendices containing a categorized, expanded, informational listing of the discovered resources.

Chapter V contains the summary, conclusions, and recommendations.

CHAPTER II

REVIEW OF THE LITERATURE

Most books dealing with social studies methods advocate the use of community resources. Some books go into detail while others make only brief mention of such resources as an aid in teaching the social studies.

Some science curriculums point out that the use of community resources enrich that subject.

This chapter presents (1) a limited amount of the history of field trips, (2) the value of community resources, (3) types of community resources adaptable for social studies, (4) use of community resources in science classes, (5) Precautions in the use of community resources and the organization of field trips, and (6) evaluation of the results of using community resources.

I. HISTORY OF FIELD TRIPS

Taking excursions or field trips to get first hand information is not a new or modern development. Some teachers in all ages have supplemented their teaching by having their students secure a part of their knowledge by the use of excursions (14:404). Historically the school excursion may be connected with the wandering and begging students of the middle ages. The distinct educational value of travel was recognized by most writers on education of the sixteenth and seventeenth centuries . . . (20:542).

Rousseau's philosophy of education, which emphasized teaching through nature, included field trips and school journeys.

The German educators recognized the value of field trips and made excursions a part of their educational system in the nineteenth century. Such school journeys became popular and spread to Asia (15).

We are told that before the last world war it was a common sight to see groups of children going on excursions. Some of these trips might be but a few minutes in length, or they might last for several hours (4:73-74).

Occasionally the excursions took up to several days. This would not be advocated at the present time due to the dangers involved in our modern ways of transportation, the expenses of such a trip, and the time lost from necessary schoolroom activities.

In England in 1911, school journeys were in the following groupings:

- Sightseeing: Contacts with municipal and official organizations and friendly exchange of social contacts with local schools.
- Walking tours, using youth hostels affording a more intimate contact with foreign youth similarly engaged.

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- 3. Group exchange of pupils: Foreign children living in English homes and attending English schools with their hosts for three or four weeks and returning to their own land with their hosts for a similar program. Such contact for six to eight weeks gives opportunity for language practice and better comprehension of social conditions.
- 4. Grouping of parties from different countries in camps and hostels.
- 5. Individual exchange (8:541-542).

After World War I, field trips in Europe declined but were

revived in the 1920's.

Field trips in the United States are usually rather short. Where

schools have undertaken them, the results have usually been satisfactory.

Branom tells us:

During recent years youth hostels have been opened in certain sections of the United States . . . Since most school excursions in the United States are seldom more than a few hours long, very little use has been made of the hostels by our schools. However, the time may come when it will be a common occurrence for children in the high school and in the seventh and eighth grades to spend more than one day on an excursion away from home (4:74).

Since few community activities can be brought into the school,

students should be taken to the activities. This is the reason field trips were developed.

II. THE VALUE OF COMMUNITY RESOURCES

True education makes use of all the processes and means by which the child develops attitudes, abilities, and desirable forms of behavior which will be of value to him. It fits the child for his future place in society. To educate the "whole child," use should be made of available resources which would aid in such development.

Numerous values can be gained from the use of pertinent resources. According to Wesley (38), the community is "the epitome of the world." Here are to be found things from the past and present.

The community is the setting in which the child lives and learns; in it he develops the meanings and concepts essential to an understanding of group living; in it he experiences life in a democracy. The experiences he has in church, stores, theaters, home, neighborhood, and school become his background of meanings for study, thought, and expression . . . The local community is the maturing child's laboratory for learning about man's way of living.

Some of the richest instructional resources for the social studies can be found in the local community (25:221-222).

Thus it can easily be seen that field trips are an aid to under-

standing and interpreting life in the community and in other communities

which the child may read about.

The use of the community as a laboratory for teaching also offers the school an excellent opportunity to build better relationships with the public. As teachers and parents work together to locate materials and opportunities for field trips, both groups will develop better appreciation of each others' problems (39:130).

Although a few teachers have through the years used community resources in their teaching, there are still many who do not, perhaps in many cases because a list of people and field trip possibilities are not readily available (39:133).

Community resources are thus important to the schools. The

use of them helps round out the education of the child in a total situation.

To do this, schools should investigate meaningful resources and thereby

enrich their curriculums. In this way, a variety of learning experiences would be provided.

One educator (13:219) claims that resource materials are a means to an end. This educator says, too, that these resource materials are able to enrich the environment in which learning takes place. Children's curiosities are thus stirred and satisfied. They gain a broader knowledge which is an aid to them throughout life.

The American Educational Research Association reported:

Howell, comparing the use of filmstrips with field trips in teaching factual knowledge about the dairy and how a newspaper works, found the field trip to be significantly more effective And the addition of the filmstrip to the field trip was even more effective (32:164).

Horn states:

Those teachers who look upon excursions as a form of play do not understand the value of learning through concrete experiences. Neither do they realize the community can furnish many of the experiences that children need in their schoolwork. When they were children and went to school, their work was based almost entirely upon books. Likewise, they still believe that almost all knowledge is obtained from books . . . Those teachers who think they have no time for excursions because they have so much work for their pupils to do, would be surprised to learn that well-planned excursions lighten the work in place of making the work heavier (14:73).

Excursions have a great many values. Horn says further:

(1) They form a connecting link between the school and community and arouse pupil interest in school. (2) They provide definite information from first hand observation. (3) They arouse interest and vitalize school life and school problems. (4) They provide common experiences for all children. (5) They develop worthwhile attitudes and better understanding between a teacher and students. (6) They develop a sympathetic understanding of the problems and social contributions of various vocations (14:409-410).

When community resources are incorporated into the curriculums of schools, the people of the community learn to know their resources and make more use of them. Children enjoy social studies and science more when community resources are used from time to time. Usually there is a better feeling between citizens of the community and the school.

Edgar Wesley, former Associate Professor of Education at the University of Minnesota, has this to say regarding local materials:

The pupil who fails to identify the local counterpart of what he studies in a book is failing to utilize the most promising materials. In fact, his learning is not complete or functional until he is able to complete the cycle by realizing that the local instance is the reality that he has studied in the textbook. The local community thus furnishes the standard of achievement as well as the laboratory of materials (39:432-433).

One authority says regarding the value and the use of field trips:

Field trips and the use of the community as a living textbook will educate the teacher as well as his students. The teacher is not expected to be an expert in every subject which a class might discuss. The teacher today is a specialist in children. He knows how to plan effective learning experiences for modern methods to best advantage. Thus the good teacher knows that in any community there are many people who have skills and talents he does not possess. Photographers, stamp collectors, travelers, farmers, mechanics, doctors, clerks, craftsmen, and a host of others can make valuable contributions to education in the classroom. It only remains for the school to let them know that they are needed and to inform them how they can be of assistance (40:132).

As children grow older, more and more of their interests tend to

lie outside their homes and schools. The teacher, by having the children

take field trips, is guiding their community living toward specific objectives.

One educator states:

As an extension of classroom instruction and of textbooks, excursions constitute a valuable supplement, since they furnish innumerable opportunities for concrete experiences which give life to school instruction (17:748).

III. TYPES OF COMMUNITY RESOURCES ADAPTABLE

FOR SOCIAL STUDIES

According to Ernest Horn, sources providing concrete experiences

might be:

(1) Objects, models, and museums, (2) excursions, (3) constructive activities, and (4) direct participation in community enterprises (14:393).

Community resources are summed up by another educator as

follows:

The resources of a community can be divided into (1) physical phenomena such as hills, soil, roads, factories, mills, books, museums, and other material things and places which can be visited; (2) social institutions such as families, parties, courts, unions, teams, and clubs; and (3) such intangibles as customs, ideas, beliefs, traditions, and attitudes (38:382).

Local communities usually have available many of the funda-

mental interests discovered in social studies classes. However, some

of these resources will vary in different communities. Ragan says in

regard to them:

Community resources are a convenient and valuable asset to the enrichment of elementary social studies. The variety and convenience of such resources will vary from community to community (31:290).

The following is a list of community resources which might be

used by elementary school social studies classes (31:291):

Local History

Names of persons, places, streets, buildings Memorials, statues, relics Pioneer utensils, furniture, clothing Spots of historic interest Old records, discarded primitive machines

Local Geography

Land and water forms Nearby bodies of water Climate, soil, products Native birds, animals, plants, trees Natural resources, minerals, oil, coal

Local Institutions

Museums, libraries, fairs Homes, churches Hospitals, clinics, dispensaries Educational institutions Press, radio, motion pictures

The People and the Community

Workers and the work they do Scientific inventors Artists, musicians, authors People with hobbies Local Government and Its Services

Treasurer's office* Assessor's office* Recorder's office* Sheriff's office*

* Added to the list by the writer

IV. USE OF COMMUNITY RESOURCES IN SCIENCE CLASSES

Probably no subject offers greater promise for development in elementary schools than does science. Science is important because it supplies information which is useful in daily life. It not only explains about little things, as a drop of water, but it also teaches about larger things--as the universe of stars. Science interprets the environment and man's relation to it. Nature and science are not separated in the elementary school, so things in the universe and in the environment have a very definite meaning to the children.

In the field of science, many community resources can be found which will enrich the child's scientific background and reinforce learnings.

According to the 1943 Kern County, California, school guide (21:5), science holds an important place in the social studies. More emphasis was being placed on American life and "more time and thought was devoted to the study of community resources and needs." The Kern County schools advocate field studies in science by taking field trips. The Kern County Guide reports that during a sixth grade nature study:

Twenty minute excursions were made as frequently as twice a week. Observations were not limited to animals but included insects and vegetation as well. In our location we seldom went far from the school grounds since much of our quarry lived close by, and we could observe at hand our animals in their native habitat (21:168).

Some community resources applicable to science are:

- 1. Areas of wild-life.
- 2. National parks and city parks
- 3. Areas of special rocks and minerals
- 4. Museums and zoos
- 5. Areas of varied soils
- 6. Mines and quarries
- 7. Rock shops and rock collections
- 8. Flower gardens
- 9. Vegetable gardens
- 10. Wild flower locations
- 11. Oil refineries
- 12. Areas of various types of weeds and/or plants
- 13. Lava beds
- 14. Bodies of water
- 15. Land and water forms

16. Fairs and exhibits

17. Resource persons

18. Green-houses and their plants and shrubs

V. PRECAUTIONS IN THE USE OF COMMUNITY RESOURCES

AND THE ORGANIZATION OF FIELD TRIPS

Wesley and Adams state:

The teacher's function is not to guide her pupils through all the aspects of the community but to find and select for study those which have educative values. She must therefore remember the limitations of elementary pupils and select those which are pertinent, convenient, and helpful (37:386-387).

A number of important things that teachers should remember when contemplating field trips are brought to view by Branom (3:75-83). Field trips that are properly conducted give pupils experiences in working and planning together. Leadership and responsibility are developed. Students learn to listen to others and follow directions. Branom says that teachers need to know the community well. Sometimes it is necessary for the principal to obtain permission for the teacher and the class to visit certain places. Teachers should find this out ahead of time.

Arrangements for field trips should be made several days before the trip is to be taken. The proposed trip should be talked over with the principal and his permission obtained. The teacher should visit the place or places to which the trip is to be taken to see what the conditions are and to orient the pupils as to what they need to look for on the trip. In case there will be a guide available for the trip, the teacher should tell him the purpose of the trip. The guide will then be of greater value, for he will be more apt to use language the children can better understand.

Before taking the trip, the teacher must be sure that it will be safe for the children to visit the place. Branom warns:

The teacher must always remember not to take her pupils to any place where there is danger of some child being injured.

The teacher should obtain permission to take his class to visit a certain place on a given date from the manager or the person who is in charge. Proper arrangements should be made so that everything will be ready for the class when it arrives (3:77).

Usually whenever a teacher takes a class on a field trip or an excursion, he should secure the parents' permission. Parents should know where their children are at all times.

Since there is always an element of danger involved in any excursion, the consent of the parents must be obtained. Then if there should be an accident, the parents should not hold the teacher responsible. The teacher must remember that the parents have trusted the care of their children to him and he must keep the idea of safety in mind at all times (3:78).

The parents' consent should be in writing. The teacher should

have a mimeographed form which he fills in with the necessary explanations

and data. The students can take the form home to be signed by their parents. (See Appendix A.)

It is necessary to inform the parents of the following:

- 1. Time of departure and time of expected return.
- 2. Cost of the trip to the pupils, if any.
- 3. Mode of transportation.
- 4. Whether a lunch will be needed--also, where it will be eaten.
- 5. The route to be traveled.
- 6. Type of clothing to be worn.

Teachers must make sure that responsible persons are in charge of transportation if school buses with their regular drivers are not used. All cars must carry proper accident insurance.

Pupils need to be thoroughly prepared for the trip to have an efficient learning experience. Their interest should be fully aroused. Committees should be appointed to work with the teacher in planning the trip. The teacher and children should make a list of things to be observed during the trip.

The following is a guide which would be of value when planning for field trips:

- 1. Contact the organization well in advance to make arrangements:
 - a. Ask for name of person in charge

b. Find out at what age children are permitted to visit.

- c. Find out how large a group can be accommodated at one time.
- d. Determine exact time of visit.
- e. Will a special guide be available?
- f. Could guide's talk be recorded on tape?
- g. Will it be permissible to take pictures?
- h. Will printed materials be available?
- 2. Make arrangements with school administration:
 - a. Ask permission of the principal.
 - b. Make arrangements for transportation.
 - c. Plan for adequate number of parents to help.
- 3. Purpose of the trip:
 - a. Be sure trip is for specific purpose.
 - b. Be sure it correlates with school studies.
 - c. Plan goals to be reached with class.
 - d. Establish rules of conduct.
 - e. Plan a follow-up evaluation.

4. Parent consent:

- a. Send home a written notice explaining purpose of proposed trip.
- b. Give exact time of departure and return.
- c. State type of transportation.

- d. Cost of food or other expenses, if any.
- e. Type of clothing to be worn.
- f. Obtain written permission of the parents.
- g. State any other necessary details.

Some teachers may feel that the above guide is relatively

unimportant, but Ernest Horn in Methods of Instruction states:

The greatest value is obtained from excursions that have been carefully prepared for in the regular work of the school, through readings, discussions, and, in case some industrial process is to be observed carrying out parts of the process in a simple way in the classroom. For example, the value of a visit to a woolen mill is enormously enhanced for students who, as a part of their classroom work, have actually carried out in a simple way, the processes of washing, carding, spinning, and weaving (14:411).

It would be better never to have a field trip than to have a poorly planned one. Good planning will make the field trip an enjoyable and educational experience.

Every field trip should have an educational purpose. To achieve the desired purpose, careful pre-planning must be done. The students should be included in this pre-planning so they will realize their responsibilities better.

Any parents who accompany the group on the trip should understand the major purposes to be achieved. Specific instructions should be given them regarding ways they are to help. For example, if they are responsible for a group of eight children they should learn the names of the children in their group and carry out specific directions regarding standards and regulations that have been set up. The parents should be introduced to the children for whom they are responsible and the children should understand how they should help on the trip (25:217). Resource persons brought into the school room are valuable aids in presenting worthwhile information. They can be utilized in the fields of social studies and science. They should be able to speak before a group and express themselves well.

A good check list to set up in regard to a good resource visitor

might be the following given by Grambes, Iverson, and Patterson (11:206):

- Is he interested in pupils or education or does he have a negative attitude toward young people?
- 2. Does he ordinarily speak in an overly academic fashion?
- 3. Does he ramble and constantly get off the subject?
- 4. Is he a jokester?
- 5. Does he express strong prejudices?
- 6. Will students confuse or offend him?

Every community should be canvassed to determine what persons should be asked to share their experiences with the children in the classroom. A childhood spent in Norway, Italy, Greece, or elsewhere should produce an adult whose reminiscences would not only interest the children but increase their understanding of how others live. Early pioneers can unfold for them the stories of their adventures. A farmer can explain why and how he fertilizes the soil, rotates crops, cares for the seed, and does many other kinds of work necessary to the production of food. The dairyman, the grocer, the butcher all can give greater meaning to their respective tasks (38:9).

Jarolimek, a noted social studies educator, makes this

statement:

The teacher must always select with care the persons who are invited to spend time with the class in the name of instruction. Some people should not be asked to speak to children because they are not able to make themselves understood, they lack an understanding of children, they hold and express freely attitudes or beliefs which may be offensive to members of the group, or fail completely to grasp the significance of their visit to the class. The teacher should plan to spend some time with the visitor sufficiently far in advance of the visit to brief him on the activities of the class, the purposes of his visit, and the points to be discussed and stressed in the visit. Likewise, the children must be prepared for the visitor, listing the purposes of his coming, questions they should like to ask, and general courtesies extended to classroom guests. Handled in this manner, persons from the community can make a positive contribution to the instructional program in the social studies (17:119).

Another educator says:

Before resource visitors come, plans should be made which will enable the class to gain the most from the experience:

- Brief the visitor ahead of time (Give him a list of student questions.)
- 2. Prepare an introduction.
- 3. Request permission to interrupt.
- 4. List questions on the board.
- 5. Use a group interview.
- 6. Prepare the class for the visitor (11:207-208).

In most cases, it would be best to have no class discussion or evaluation of the visitor. The pupils and teacher should always remember to send a letter of appreciation to the visitor for the service which he gave.

Mary Willcockson in her discussion of resources has this to

say regarding resource persons:

When people from the community come into the classroom, they not only help to make teaching more worthwhile but they also get a closer look at the school . . . Many lay people are self-conscious about talking to students. A great deal can be done to ease the situation if formal talks and lectures are kept to a minimum and the emphasis placed on informal discussion and demonstration (40:132-133).

Michaelis suggests an interview as a valuable means of gathering information in certain cases in which a resource person is unable to come to the school. An interview can be conducted by a small group or by an individual child. Plans should be made by the teacher and pupils to decide what standards should be set up. The following standards listed by Michaelis serve as an aid for interviews:

- 1. Introduce yourself.
- 2. State questions clearly.
- 3. Listen attentively.
- 4. Let the other person talk.
- 5. Ask questions on special points.
- 6. Take notes on hard points.
- 7. Don't waste time.
- 8. Express thanks when finished (26:224).

Interviews should be evaluated just like field trips. Children thus learn the importance of accurately reporting the facts and other learnings gained from their experience to the rest of the group.

VI. EVALUATION OF THE RESULTS OF USING COMMUNITY RESOURCES

When the students return from the field trip, there should be a discussion period. During this time, the pupils have the opportunity of asking questions about anything they did not understand. Also, they should be allowed to contribute learnings which they gained from the trip.

Ernest Horn expressed himself on the subject of field trip evaluation as follows:

Any excursion worth taking is worth spending time on after it is over. At least one period should be spent in discussing it. The information gathered should be used to solve the problem for which the excursion was undertaken. If it has been a success, there will be many questions to talk over. Care must be taken, however, to see that the activities that grow out of it are clearly needed. Excursions are sometimes made unpopular by burdening the students with so many subsequent tasks as to lead them to look forward to the next excursion with very little enthusiasm (14:412).

As children evaluate their learning experiences and plan ways of improving those experiences, self-direction and independence are developed which will be of value all through life. It is wise for pupils and teacher to make a summary of what was learned.

One social studies teacher feels that tests are valuable after a

field trip:

Tests may be given after the pupils return from an excursion to check some of the chief points which the pupils should have learned. These may include both the essay type and the new type test. Pupils enjoy answering the true-false test, the completion test, the matching test, the multiple-choice test, and other forms of the new type test when the results are used wisely by their teachers (4:81).

The excursion may call for various reports. There may be group reports or individual reports. These may be written or given orally . . . Possibly some questions are raised that require the reading of special references. One important function of an excursion is to raise questions for further study (4:81).

In real life situations, there should be constant evaluations. Field trips are surely real life situations. These should be evaluated according to the purposes which were set up by the students and teacher previous to the field trip.

Evaluating an experience is an aid in indentifying the defects or failures. It helps the teacher know what learnings the group received. Also, it will enable the teacher and the pupils to plan wisely for future field trips.

The field trip will have provided for oral and written language, art activities, dramatization, social studies and/or science learnings, and other worthwhile summarizing activities.

CHAPTER III

COCHISE COUNTY AND BISBEE, ARIZONA, HISTORY IN RELATION TO COMMUNITY RESOURCES

To choose resources which will be of most value to students, it is well to know a little of the history of a region. Some of the history of Bisbee and Cochise County is mentioned by the writer not only because history is one branch of the social studies, but also because one should know the history of an area to understand its development or non-development. Many of the resources which were found help portray the history of Bisbee and Cochise County.

This chapter will present (1) a brief history of Cochise County, (2) historical and background information of the Bisbee, Arizona, area, and (3) units of study in which resources can be of value.

I. A BRIEF HISTORY OF COCHISE COUNTY

Cochise County, ninth in size among Arizona's counties, lies in the southeast corner of Arizona, bordered by New Mexico on the east and the Mexican State of Sonora on the south. It was created February 1, 1881, and was named after the Chiricahua Apache Indian Chief, Cochise.

Encompassing 6,256 square miles, or 4,003,840 acres, most of the county lies in a 3,000 to 6,000 foot elevation range on the western slopes of the Continental Divide. It is a county of vast agricultural valleys, rolling rangeland and lofty mountain ranges, a land of temperate climate without extremes of heat or cold (2:3).

The area of Cochise County would contain the states of Connecticut and Rhode Island and still have thirty-three square miles to spare.

Though Cochise County is in the southern part of the state, it is not essentially desert. There is much of interest in the county which will hold the tourist for days, weeks, and even months.

The early recorded history begins with the explorer Don Francisco Vasquez de Coronado. In 1540, eighty years before the Pilgrims landed at Plymouth Rock, Coronado crossed from Mexico into what is now Cochise County. Searching for the "Seven Cities of Cibola," he entered the county at what is now Naco, just south of Bisbee. From there he went north to the headwaters of the Little Colorado River to Cibola country. The seven cities turned out to be Zuni villages near what is Gallup, New Mexico, today (2:3). Coronado and what was left of his once great army returned to Mexico City after they discovered that the tales of fabulous hoards of gold were untrue.

It is ironic that when Coronado and his army first entered Cochise, they camped on the San Pedro River near the future townsite of Tombstone--whose mines were later to disgorge millions of dollars worth of silver, a sum far greater than Coronado could have ever dreamed of finding in the Seven Cities of Cibola (2:3). Also, he never suspected that treasure lay buried beneath the limestone hills of the Bisbee area some fifteen miles away. This treasure was worth hundreds of millions of dollars in the form of copper, gold, and silver.

The California Gold Rush was responsible for the development of the southern route of the Butterfield Stage Line from St. Louis to San Francisco. In 1858, Benson on the San Pedro River became a stage stop and Fort Bowie was built in 1862 to protect the travelers from the Apaches under Chief Cochise. Cochise finally made a lasting peace with the white men. This was due mainly to the efforts of Tom Jeffords, whom Cochise made his "blood-brother."

After Cochise died in 1874, a small band of renegades led by Geronimo continued their raids of pillage and torture, preying on the settlers. In the spring of 1877, Camp (Fort) Huachuca was established to protect the settlers from the Indians. The early settlement of Mahley was re-named Willcox in 1880 in honor of Orlando B. Willcox, one of the American generals (2:14).

Ed Schieffelin, a government scout, saw a glint in an overturned rock. Upon checking it, he found it to be silver. Later at Fort Huachuca he told an Indian fighter, Siever, that he was going to quit the government and go prospecting. Siever warned Schieffelin that all he would be able to find would be his tombstone. Ed Schieffelin remembered that taunt when he later filed a claim on what he called, "Tombstone Mine."

The discovery of silver started the greatest silver rush in United States history, and soon Tombstone grew to be a city of 15,000 people. Tombstone was a most lawless town--a town practically "too tough to die" even though many disasters took place. Thus it was natural in 1881 when Cochise County was created that Tombstone be chosen the county seat.

However, the real story of Cochise County was the story of copper. Jack Dunn, an army scout, and George Warren, a prospector, found copper which was to make the county one of the nation's greatest copper producers and Arizona the leading copper state.

Cochise County also has produced 22 per cent of Arizona's output of gold, 38 per cent of the silver, 32 per cent of the lead, and 27 per cent of the zinc. The Warren (Bisbee) District produced 94 per cent of the total value, including practically all the copper. The Tombstone, Cochise, and Turquoise Districts produced over 90 per cent of the balance. The remainder came from Doz Cabezas, Tevis, Swisshelm, Huachuca, Middle Dragoon, Whetstone, and a few smaller districts (2:6).

Jack Dunn was the man who found the first copper in the canyon known today as Bisbee. Cochise County is rich in minerals and the mining industry is expected to last for many years to come (2:7).

Many towns are but ghost towns today. But even in the ghost towns one can read some of the past history of the county and its early settlers. Quite a number of relics of the early days remain. Old buildings have been restored, historic sites have been labeled, and many articles, utensils, and pictures are preserved in museums.

It seems that more and more people have discovered the mild year-round climate, for during the past ten years the population of Cochise County has doubled.

Cochise County has ten mountain ranges, while an eleventh is shared with Hidalgo County, New Mexico. In these mountain ranges, many semi-precious gems and minerals reward diligent "rock hounds." Mountain trails invite the hiker and horseback rider (22:4). The mountains are a good place for the study of birds, animals, and plant life.

There are two national monuments in Cochise County: Old Fort Bowie in the Dos Cabezas Mountains and the Wonderland of Rocks in the Chiricahuas. In 1952 the Coronado National Memorial was established which commemorated the coming of Francisco Coronado and the Spanish Conquistadores in 1540 (2:14).

Old Fort Bowie is a landmark of the Apache Indian wars. From here Geronimo and other Apache leaders and warriors were sent to confinement in Florida, thus bringing to an end the Apache wars.

Cochise County has heard the trumpets from Old Spain, the war cries of the Apaches, the bugles of the United States Cavalry, and the sound of blazing six-guns. Although mining, as mentioned previously, is of import, it was the rangelands which probably brought the first settlers to the county. Some of the present cattle ranches date back to the original Spanish Land Grants. The largest agricultural enterprise is the production of beef cattle. Over 2,300,000 acres of land, besides that of the forest permits, are used for range cattle. The raising of hay, grains, and silage in the Kansas Settlement and the Willcox areas aid the cattle business to such an extent that Willcox is known as the "Cattle Capital of the World" (2:9).

In the Kansas Settlement and the Stewart areas near Willcox, lettuce is becoming an important crop. Cotton, also is rather important. This is the only place where chili peppers are raised commercially in Arizona (2:10).

II. HISTORY AND BACKGROUND INFORMATION OF THE BISBEE, ARIZONA, AREA

In 1881, Cochise County was sliced from Pima County and the pioneers of Bisbee accepted the laws of the new county. No Chinese could make his home in the Bisbee mining camp. Although this was an unwritten law, no Chinese ever attempted to make Bisbee his home.

Bisbee's past is a dramatic story of adventure, fear, faith, and courage. There were many tragedies in its frontier life.

Even during the years of 1884-85 when the frightening and discouraging news swept through the canyon that the rich ore was exhausted, the pioneers and mining engineers would not say die.

Bisbee's story is the true story of those wonderful men and women who dared and endured life during a hectic area ravaged by vicious Apaches, damaging floods, and an earthquake. Those pioneers knew what the shortage of food and scarcity of water meant. And they knew fear of death by bandits. Yet, they saw the promise that Arizona had to offer, and it was through their character, integrity, courage, and faith that they started Bisbee on its way to become numbered among the richest of copper mines in the world (6:179).

Before there was a Bisbee, the canyon winding through the hills past Castle Rock was known as Tombstone Canyon. When the town began to grow, the canyon below Castle Rock was given the name, Main Street. An intersecting canyon was given the name of Brewery Gulch. It is said that the principal business of the town was transacted on Main Street and the "monkey business" in Brewery Gulch.

Castle Rock is now the center of the community which extends from upper Tombstone Canyon through Bisbee, Lowell, Bakerville, and Warren--a distance of six or seven miles.

Bisbee is the southernmost mile high United States' city. It is three miles north of the Mexican border and is ninety-four miles southeast of Tucson, Arizona. It is nestled among the Mule Mountains of southern Arizona and is a city that has a mild climate. "Bisbee has the most moderate temperature range in Arizona, varying only 53 degrees between average summer maximum and winter minimum" (2:18). Bisbee is an important mining town located in one of the richest copper districts of America. Due to the fact that the town is built in a canyon, the houses cling to the slopes on either side of the canyon. It is said that there is no home delivery of mail in Bisbee because it is too hard for the postman to climb up and down the canyon.

During the rainy season of summer, water roars down the mountain gulches including Brewery Gulch. Two persons are supposed to have lost their lives by drowning not far from the Bisbee post office. However, flood control work has been done to such an extent that this danger has been eliminated.

In 1930 a county-wide election was held to decide on the location of a new courthouse. Bisbee was chosen over Tombstone and Douglas and is now the county seat of Cochise County.

Bisbee is the center of the population concentration of the county. Within a thirty-mile radius are the communities of Douglas, Sierra Vista, Fort Huachuca, Tombstone, and Elfrida, comprising a population of about 45,000 people. Bisbee is the trade center for southern Cochise County. In it are the leading retail chain stores as well as over two hundred independent home-town merchants.

The area is rich in history and scenery. When names such as Brewery Gulch, Tombstone Canyon, Laundry Hill, O K Street, Quality Hill, The Glory Hole, and Castle Rock are heard, the story of a rugged past arises in one's mind.

There are five public elementary schools, a high school, and a junior college. Besides these are a Catholic elementary school and a Seventh-day Adventist elementary school.

Over thirty churches are located in Bisbee representing all major denominations (2:19).

The city of Bisbee is on the Copper Horseshoe highway route along which travelers can visit many historic sites and natural wonders. The city is now planning for the electronic and industrial future of Cochise County.

Bisbee is known as Arizona's "Copper Capital." Both an underground and an open pit operation are the result of Jack Dunn's discovery of copper in 1877. Lavender Pit, one of the world's largest open pit mines, is transversed by U. S. Highway 80.

Bisbee was named for a man who never saw the town--Judge DeWitt Bisbee of San Francisco. George Warren had been taken in as a partner by Dunn to work Dunn's claim under an agreement to share and share alike with Dunn and two other mining partners. Due to Warren's taste for drink, he gave away the location of the claim while under the influence of liquor. Besides, he staked fifteen other claims in his own name in the Bisbee area. He sold seven-eighths of each claim to Martin and Ballard who had been financed by Judge DeWitt Bisbee of San Francisco. Finally, for the sum of \$4,000, Jack Dunn sold his claim and holdings which have since yielded over \$20,000,000.

In 1881, Phelps and Dodge bought up the claims and called their holding "The Copper Queen Consolidated Mining Company." Copper mining has continued in Bisbee to the present time. The copper ore mined in the Bisbee area is sent to Douglas for smelting.

Lavender Pit Copper Mine is one of the world's largest open pit copper mines. Operated by the Phelps Dodge Corporation, it covers an area of over two hundred acres and is still being enlarged.

III. UNITS OF STUDY IN WHICH RESOURCES CAN BE OF VALUE

The National Council for Social Studies (28:30-31) suggests the following units as some of those which would be enriched through the use of community resources:

- 1. Safety in Our Community
- 2. Social Welfare in Our Community *
- 3. Recreation in Our Community
- 4. Newspapers in Our Community *
- 5. Government in Our Community *
- 6. Public Opinion in Our Community
- 7. Taxes We Pay in Our Community *
- * Resources listed in this study are useful in the indicated units.

- 8. Housing in Our Community
- 9. Buying in Our Community *
- 10. Education in Our Community
- 11. Communication in Our Community *
- 12. Transportation in Our Community
- 13. Appreciating Our School
- 14. Our Community: What It Is *
- 15. Health in Our Community *
- 16. Vocations in Our Community *
- 17. Wealth in Our Community *
- 18. Politics in Our Community
- 19. Workers in Our Community *

Other units which might be included in the above list are:

- 1. Spanish-speaking People of Our Community *
- 2. Industries of the Bisbee Area *
- 3. People and Life in Other Countries *
- 4. Travel in Other Countries *
- 5. History of Bisbee *
- 6. History and Settlement of Cochise County *
- 7. Soils and Rock Formations *
- 8. Flora and Fauna *

*Resources listed in this study are useful in the indicated units.

- 9. Our Community's Water *
- 10. Electrical Power of Our Community *
- 11. Agricultural Development of Our Community *
- 12. Mining Development of Our Community *

The use of available resources in the form of field trips or resource persons enrich the curriculum in untold learnings.

* Resources listed in this study are useful in the indicated units.

CHAPTER IV

METHODS AND PROCEDURES

In this chapter the writer will explain the manner in which community and county resources which would be useful for social studies and/or science classes were located.

I. PROCEDURES USED IN STUDY

Survey of Local Residents

A letter was written to Mr. Keith Jackson, Cochise County Superintendent of Schools, to secure permission to conduct this study. (See Appendix B.) Following this, Mr. O. B. Joy, Superintendent of the Bisbee City Schools, was contacted for permission to have the principals of the various schools in the Bisbee area cooperate in the study.

After the principals of the schools had been contacted and interviewed, they consented to pass out mimeographed resource investigation forms to their teachers. The room teachers then passed out the forms to their students, and the students took them home for their parents to fill out. (See Appendix C.)

These forms were brief and took a minimum of time to fill out. There were blanks for the parents' names, addresses, telephone numbers, travel experience, special hobbies, scientific collections, and collections of historical value. When the children had returned the filled-in forms to their room teachers, the returns were collected by the principal of each school. The writer then collected the completed forms and made arrangements to interview those individuals who might prove to have valuable resources for social studies or science classes, or who would be worthwhile resource persons.

Survey of Other Sources

The writer reviewed a number of social studies books to determine types of usable resource materials. A review was also made of science books and curriculums to determine types of resources which would be of use for enrichment of elementary science classes.

Resource worksheets were made on which to put information regarding community and/or county resources which would be useful in social studies and/or science classes. (See Appendix D.) The county as a whole was then studied for possible resource material. The community, including its stores and other businesses, was explored as well.

Some other methods of determining what resources might be available were: the reading of the history of Bisbee, a careful study of the telephone directory, individual trips for observation of possible resources, checking on further resource information given by discovered resource persons, and interviewing the manager of the Chamber of Commerce.

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It is possible that more usable resources and resource persons could be located if further search was made. Teachers may use the form given in Appendix C to aid them in locating resource persons in their school communities.

II. RESOURCES DISCOVERED

Some important industries and businesses have been studied as possible resources to broaden students' knowledge and are listed in this study along with resource persons and places of interest.

Appendix E contains an alphabetical listing of Cochise County resources that can be used for field trips to enrich social studies classes. Each listing contains information pertaining to the effective use of each resource.

Appendix F contains an alphabetical listing of community resources useful for field trips to enrich social studies. Basic information pertinent to the use of each resource is also given.

Appendix F contains a listing of persons with broad and varied travel experiences. Listings of the collections from the areas these persons visited and other pertinent information is also given.

Appendix H. contains a listing of persons having historical knowledge of the Bisbee, Arizona, area. Not as many resource persons are listed as might be expected. However, resourceful teachers may be able to discover more persons having historical knowledge by using the questionnaire form previously suggested. (See Appendix C.) Some of the persons having historical knowledge are willing to be interviewed by individual students.

Appendix I contains an alphabetical listing of Cochise County resources which would be useful as field trips for science classes.

Appendix J contains an alphabetical listing of community resources which would be useful as field trips for science classes.

Appendix K contains an alphabetical listing of resource persons having scientific knowledge, hobbies, or collections useful in the study of science. This listing may be incomplete, but through personal knowledge or information, talking with other people, and using the resource form suggested in Appendix C, teachers may be able to discover more resource persons who could be available as resource persons for science classes.

CHAPTER V

SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

I. SUMMARY

It was the purpose of this study to determine available county and community resources that would be useful in the social studies and science classes of the Bisbee, Arizona, area. The procedure was to (1) determine the types of resources suitable for use in social studies and science classes, (2) determine resources available in Cochise County and the Bisbee, Arizona, area, (3) secure permission to make these resources available to the schools of the Bisbee area, (4) portray the use of community resources through suggested units of study, and (5) gather data for teachers who may wish to make use of Cochise County and the Bisbee, Arizona, area resources.

A mimeographed resource investigation form, distributed through the Bisbee public schools, was filled out and returned by parents of school children. The information obtained by this procedure was studied and arrangements were made to interview those individuals who might be worthwhile resource persons.

Additional resource material was discovered through a survey of the community, a study of the telephone directory, the reading of the history of Bisbee, interviews of resource persons, and other activities.

II. CONCLUSIONS

At the beginning of this study, it was assumed that the Bisbee, Arizona, area had many resources which could be made available for use in social studies and science classes in the elementary schools. After the research was carried out, it appeared that the Bisbee schools have "at their fingertips" many types of the resources suggested for curriculum enrichment by leading authorities in the fields of social studies and science.

During the school years of 1966-68, arrangements were made for school groups to visit a few of the resources listed in this study. It is suggested that future school groups visit as many of the following places as would be practical, to make Arizona history as it applies to Cochise County live in the minds of the students: Coronado National Monument, Fort Huachuca, Tombstone, Cochise Stronghold, Old Fort Bowie, Chiricahua National Monument, Amerind Foundation, Dragoon Spring, Doz Cabezas, and Charleston, the ghost town on the San Pedro River.

The American Cross, The Arizona Bank, The Arizona Public Service Company, The Arizona Water Company, The Mountain States Telephone Company, The Bisbee Daily Review, The Chamber of Commerce, The Cochise County Courthouse and jail, The Copper Queen Library, The United States Post Office in Bisbee, The Lavender Pit Copper Mine, and The Health Department of Cochise County are well worth time spent in visitation. These resources will help students become acquainted with their town and its services.

It would be well to make use of as many resource persons as possible having varied travel experience, such as T. J. Bresina; Martin Gentry, Attorney; Rex M. Holgerson; John Pintek, Attorney; Mrs. Betty Protheroe; Charles A. Smith, Jr.; Philip E. Toci, Attorney; Mrs. James Whitney; and Paul V. Yingling, M.D.

It is further suggested that use be made of the persons having special hobbies, as listed in Appendix K.

III. RECOMMENDATIONS

As a result of the reading and research done, the writer makes the following recommendations:

- Lists of resources will need to be continually revised due to changes in businesses and migrations of listed resource persons.
- 2. Listed resources should be re-evaluated from time to time.
- Effort should be put forth to locate more resource persons in the Bisbee, Arizona, area.
- 4. Resources listed in this study should be used by teachers whenever possible, to enrich social studies and/or science.

- 5. Some resources listed may be used in other subject matter areas; for example, The Arizona Water Company or The Health Department of Cochise County listings could be of use in a unit on Health and Safety.
- All teachers should locate available resources in their communities which would be useful in several subject matter areas.
- 7. Teachers should broaden their information regarding the community in which they teach. This might be done through a personal study of community resources.

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APPENDIX A

PARENT'S CONSENT TO FIELD TRIP

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PARENT'S CONSENT TO FIELD TRIP *

(Date)

Dear _____ (Teacher) _____

I hereby give my permission for <u>(pupil's name)</u> to participate in the field trip to <u>(place)</u> on <u>(date)</u>.

I understand that even though every precaution will be taken for the safety of the group, I will not hold the school responsible for any accident involving my child.

Signed (Parent's name)

* Form from (34:43)

APPENDIX B

COPY OF LETTER WRITTEN TO KEITH JACKSON, COCHISE COUNTY SUPERINTENDENT OF SCHOOLS

Please note: Personal information has been redacted due to privacy concerns.



Mr. Keith Jackson Cochise County Superintendent of Schools Cochise County Courthouse Bisbee, Arizona

Dear Mr. Jackson:

During the past year I was teaching in a private school in your area owned and operated by the Seventh-day Adventists. This school is located on the Naco Highway.

This summer I have begun work on the Master's program. This is my problem: In cooperation with Central Washington College of Education, I would like to conduct a study to determine the community and county resources available for use in the social studies classes of the Bisbee, Arizona, area.

If you feel that this would be a worthwhile study and would be willing for me to go ahead with such a study, please let me know. I will come in to see you when I return for school duties this fall.

Thanking you for your consideration of this matter.

Sincerely,

Lulu G. Smith

APPENDIX C

QUESTIONNAIRE: COMMUNITY RESOURCE PERSONS

Please note: Personal information has been redacted due to privacy concerns.



Dear Parents:

In an effort to provide enrichment for the curriculum of the schools in the Bisbee area, a study is being conducted to determine available community and county resources. The specific resources under consideration are those which would be of value for use in the science and social studies classes of this area.

Many of our school patrons and townspeople have worthwhile hobbies, collections, and travel experiences which they might like to share with the schools.

In case you would be willing to share in this study, kindly complete the questionnaire and return it to the school by your child.

Thank you for your co-operation in this study.

Sincerely,

/s/ Lulu G. Smith (Mrs.) Lulu G. Smith

Questionnaire: Community Resource Persons *

| Pupil's Na | ame | | | |
|--|------|--------|--|--|
| Address | | | | |
| Phone Nu | mber | · | | |
| Age | | Grade | | |
| | | | | |
| Occupation of Parents: | | | | |
| Father | | Mother | | |
| Travel Experience of Parents: | | | | |
| Father: | | | | |
| | | | | |
| | | | | |
| Mother: | | | | |
| - | | | | |
| Collections of Parents: (Stamps, rocks and minerals, etc.) | | | | |
| Father: | | | | |
| Mother: | | | | |
| | | | | |
| Hobbies of Parents: | | | | |
| Father: | | | | |
| | | | | |
| Mother: | | | | |
| | | | | |

* Form adapted from Appendix (9:66).

APPENDIX D

RESOURCE WORKSHEET

COMMUNITY RESOURCE WORKSHEET*

| Name of Place of Speaker | | | | |
|--|----------------------------|--|--|--|
| Address | Phone | | | |
| Person to contact (1) | Title | | | |
| Person to contact (2) | Title | | | |
| Nature of Activity | The following can be seen: | | | |
| (Specific description of educational activities, | 1. | | | |
| contributions, etc.) | 2. | | | |
| | 3. | | | |
| | 4. | | | |
| | 5. | | | |
| Limiting Conditions (Group size, safety, hazards, seasonal factors, etc.) | | | | |
| Time Required | | | | |
| Best Days and Time | | | | |
| Comments | | | | |
| *Form adapted from Appendix (| 34:82). | | | |

APPENDIX E

INFORMATIONAL LISTING OF COCHISE COUNTY RESOURCES THAT MAY BE USED FOR FIELD TRIPS TO ENRICH SOCIAL STUDIES

| Place: | Amerind Museum Foundation, Incorporated | |
|--|---|---|
| Address: | Dragoon, Arizona | Phone: Willcox 585-3003 |
| | ntact: Charles C. Di | Peso, Manager |
| Nature of Activity | | The following can be seen: |
| | | 1. Hall of Archaeology |
| | | 2. Museums of Indian artifacts |
| | | 3. Comparative collection of Indian masks |
| | | 4. Regional ethnological collections |
| | | 5. Three floors of items |
| Limiting Conditions | | Shown by appointment only |
| | | Groups limited to 15 |
| | | No admission charge |
| | d: Approximately two | |
| Best Days and | d Time: Friday, Satur | day P.M., and Sunday |
| Comments: Best exhibit of archaeology and ethnology in Arizona. Primarily a laboratory for archaeological and ethnologica | | |

| Place: | Apache | | |
|----------------------|--|--|--|
| Location: | 25 miles southeast of Camp Rucker; 38 miles north of Douglas; 12 miles south of Rodeo | | |
| Nature of Activity | | Reason for Trip: | |
| | | To see monumental tower denoting area where Geronimo , Nachite, and followers surrendered to General Nelson A. Miles on September 5, 1866. | |
| Limiting Conditions: | | None | |
| Time Required: | 10 to 15 minutes | | |
| Comments: | An excellent place to | o make Arizona history come to life. | |

Due to distance, it is preferable to visit this resource on return trip from Rucker.

| Place: | Appaloosa Horse Ranch | | | |
|---|---|--|--|--|
| Address: | Tombstone, Arizona, 9-1/2 miles north of Bisbee | | | |
| Person to Con | tact: (1) Ross Cain (2) Margeine | | | |
| Nature of Activity | | View Appaloosa horses and gain an understanding of their characteris- tics and uses. | | |
| | | Listen to Ross Cain's informational talk about Appaloosa horses. | | |
| Limiting Conditions | | Small groups of 15 to 30 | | |
| | | Must obey all safety standards established. | | |
| | | Spring or fall is the preferred time for appointments. | | |
| Time Required: About one-half hour | | | | |
| Best Days and Time: Write for appointment | | | | |
| Comments: Very worthwhile for students in high school who are taking agriculture. Also valuable for seventh and eighth grade social studies groups. | | | | |

Place: Boot Hill Gravevard and Novelty Shop Phone: 457-3512 Address: Tombstone, Arizona Person to Contact: Boot Hill Cemetery Novelty Shop Nature of Activity The following can be observed: 1. Town's first burial grounds. 2. Names of desperadoes on grave markers, as Billy Clanton and the McLaury brothers. 3. Surroundings in about the same state as when Tombstone was young. Limiting Conditions: No limiting conditions, but groups should be well supervised. Time Required: 15 to 20 minutes Best Days and Time: Open every day Comments: No appointment is needed. The management welcomes groups at any time. Helps impress Cochise County history on the students' minds. Resource is best visited on same day as some other Tombstone resources are visited.

| Place: | Cochise Stronghold State Park | | | | | |
|--------------------|--|---|---|--|--|--|
| Address: | Dragoon Mountains, 30 miles east of Benson About 60 miles from Bisbee by State Highway 666; located between Dragoon and Pierce | | | | | |
| Nature of Activity | | | vities and learnings: | | | |
| | | 1. | Hiking and rock exploration. | | | |
| | | 2. | Hunt for medicine cave. | | | |
| | | 3. | Gain knowledge of hideaway of Cochise, famed Apache chief. | | | |
| | | 4. | See why Cochise and his Apache group were secure. | | | |
| | | 5. | Imagine where grave of County's most noted resident might be. | | | |
| Limiting Condi | itions: | Open all year but best time to visit is in May. | | | | |
| | | Gro | up must stay together. | | | |
| | | Cou | ld be rattlesnakes. | | | |
| | | Sma | ll groups best. | | | |
| Time Required: | ed: Two or three hours | | | | | |
| - | Time: Good picnic p | | for weekend. | | | |
| Comments: | No charge except for overnight camping. Excellent culminating activity after study of Cochise and Cochise County. Self-guided nature trail is of great value. | | | | | |

| Place: (| Coronado Natio | oronado National Memorial Park | | | |
|--|-----------------------------|--|--|------------------|---|
| Address: S | Star Route, Her | eford | , Arizona | Phone: | 366-5515 |
| Person to Co | ntact: (1) Jerr (2) Free | - | tt ridson | Title: Title: | Ranger Ranger |
| Nature of Act | ivity | Act | ivities and le | earnings | 3: |
| | | 1. | One-half m | ile hike | to 6,875 foot elevation. |
| | | 2. | Self-guided region. | l nature | trail showing flora of |
| | | 3. | Slides orien Visitor Cen | | park shown in |
| | | 4. | History of a Center. | area por | trayed on panels in |
| | | 5. | | - | nmemorates first pration by Europeans. |
| Limitating Conditions | | Clo | oups of about osed December y on trails as | er 1 to 1 | March 1 for groups. |
| Time Require | d: | Abo | out 2 to 2-1/ | 2 hours | |
| Best Days and Time: | | 9:30 a.m. Saturdays or arrange for time. | | | |
| Comments: A good place Park Ranger v to group. | | | - | - | ants. Ides, and speak |

| Place: | Doz Cabezas | (Names after | two v | olcanic | peaks) |
|--------|-------------|--------------|-------|---------|--------|
|--------|-------------|--------------|-------|---------|--------|

Address: Star Route, Willcox, Arizona On highway to Wonderland of Rocks

Person to Contact: Cash Freeman, store operator

| Nature of Activity | The following historical learnings may be derived: |
|-----------------------|---|
| | 1. Oldest schoolhouse in Cochise County seen. |
| | 2. Note original site of cross by Father Kino. |
| | Locate original Indian Pit Houses about 2,000 years of age. |
| | 4. See part of old Butterfield Stage Coach depot still standing. |
| | 5. Learn about artifacts in Nell Merwin Museum. |
| | 6. Deduct that Doz Cabezas formerly Ewell Station on a bloody pioneer trail |
| Limiting Conditions: | No limit as to group size Small groups only in store to see Indian jewelry, Indian artifacts, and blankets. |
| Time Required: | About one hour |
| Best Days and Time: | |
| Comments: Appointment | is not needed, but preferable to be sure |

museum is open. An excellent history resource.

Place: Dragoon Spring

Address: Drive to Dragoon from interstate route 10 in Texas Canyon. Dragoon is about two miles from the Amerind Foundation.

Person to Contact: Clifton Comstock Phone: 586-2592

| Nature of Activity | Historical facts impressed: | | | |
|-----------------------|--|--|--|--|
| | Death of Pioncenay and Piahel, two Apaches at Butterfield Station. | | | |
| | 2. The scene of many massacres by Cochise. | | | |
| | 3. Tragic story of young men who gave lives to bring transportation to Cochise County. | | | |
| Limiting Conditions: | No limit as to group size. Obey safety precautions. Spring and fall best. | | | |
| Time Required: | About one hour | | | |
| Best Days and Time: | | | | |
| Comments: A good time | to visit this resource is the day of the | | | |

Comments: A good time to visit this resource is the day of the Amerind Foundation trip. It is a valuable resource for impressing Cochise County history on the students' minds.

| Place: | Flying Horseshoe Ranch | | | | | |
|---------------------|------------------------|-----------------------------------|--|----------------------|---------|----------------------|
| Address: | | - | | of Benson | Phone | : 586-2592 |
| Person to C | ontact: | • • | | Comstock Comstock | | |
| Nature of Activity | | The 1. 2. 3. 4. 5. | How cattle are branded. How cattle are marked. How cattle are roped and separated from herd. | | | |
| | | | | of Comstoc | | |
| Limiting Co | onditions | 5 | | | ons set | up must be observed. |
| Time Required: | | Apr | Approximately two hours. | | | |
| Best Days and Time: | | Apr | April and November by appointment | | | |
| | | | | | | |

Comments: There is a simulated cemetery at old depot with names of two killed in battle. Very worthwhile for upper grades students.

| Place: | Fort Huzchuca Historical Museum | | | | |
|-------------|---------------------------------|------------|---------------------------------------|----------|-----------------|
| Address: | Huachuca City, | Ariz | ona | Phone: | 458-3898 |
| | Contact: Orville i | | ochran | | Director |
| Nature of A | | | following can be s | | |
| | | 1. | Indian artifacts | | |
| | | 2. | Antiques | | |
| | | 3. | Historical display | ys | |
| | | 4. | Combat surveillar heliograph | nce droi | nes and army |
| | | 5. | Meteorological ea | quipmer | ıt |
| | | | Vietnam display | | |
| Limiting Co | onditions: | Gro Har | up limit is 25. Ids should be kept | from to | uching displays |
| Time Requi | red: | At l | east one hour | | |
| | and Time: | 8:0 | 0 a.m. to 4:00 p.m | 1. week | days |
| | | | | | |

Comments: Museum established in 1960 to depict story of the post, established to protect settlers of southwestern Arizona from raiding Apaches. No admission charge.

| Place: | Gabe's Doll Shop and Museum | | | | |
|-------------|---|--------------------|---|-------------------------|---------|
| Address: | P. O. Box 511, Tombstone, Arizona Phone: 457-3419 | | | 457-3419 | |
| Person to C | Contact: Gabe M | cNee | - | Title: | |
| Nature of A | ctivity | The | following can be s | | |
| | | 1. | Dolls of olden tim | nes | |
| | | 2. | Toys of olden time | es | |
| | | 3. | Mineatures | | |
| | | 4. | Old time greeting | cards | |
| | | | Old time furniture | | |
| Limiting Co | onditions: | Sma Adm arra | ll groups of 10 to ission free to scho nge for an appoint | 15 ool group ment | os that |
| Time Requi | red: | | o 30 minutes | | |
| Best Days | and Time: | Any | | | |
| | | | | | |

Comments: A most worthwhile experience for any age. Resource fits well into history as old time things and ways of doing are portrayed.

Place: Ghost Towns of Cochise County*

Location: Located and described according to accessibility

A. Quiburi:

Oldest ghost town, 3 miles north of Fairbanks on San Pedro River; site excavated by Amerind Foundation in 1953.

Take dirt road one mile west of bridge across San Pedro at Fairbanks and drive north three miles; hike east until ruins are seen on bluff above San Pedro River.

B. Contention City:

Ruins of Contention City are a little further north on same bank of San Pedro as Quiburi; townsite is badly eroded.

C. Grand Central Mill:

Located two miles north of Fairbanks on same side of San Pedro River; remains of a thirty-stamp mill; a huge stone terrace above river.

D. Hereford:

Located just north of Palominas; in 1880 was center of Colonel Greene's Cattle Company; named for Territorial Lawyer, Frank Hereford.

E. Thursday Crossing:

Located just south of where state route 90 crosses San Pedro River; here Apaches tortured whites and escaped to Mexico.

F. Lewis Spring:

Located just north of Thursday Crossing and is just north of the bridge and overpass on state route 90; marker in evidence showing where battle between Mormons and a herd of wild bulls took place; Mormon Battalion was under direction of Captain Cooke.

^{*}Location aided by (22:1-107).

Ghost Towns (continued)

G. Charleston:

Located near paved Charleston Road at the San Pedro River and is nine miles from either Tombstone or Sierra Vista; look for a barbed wire fence; drive through gate to grove of cottonwoods; hike along railroad east of river for one-half mile; town will be seen on west side of river about a quarter mile north from the cottonwood grove and opposite ruins of old stamp mills; quite a few adobe walls still standing; about one mile from town site is the cemetery with marble markers engraved with quaint old-fashioned verse.

On east bank are rounded hills which are ancient volcanic cones; specimens of volcanic rock can be found.

Just north of townsite are petroglyphs chiseled on rocks and walls on east bank of San Pedro River.

On top of middle volcanic hill is an ancient fort; here arrow heads may still be found; ashes of last Apache signal fire slightly dust covered still there; visit when no danger from rain or flash floods.

H. Brunckow Mine:

Located on state route 90 on road to Tombstone; a mile or so from Charleston on south side of the road; ore samples available; deserted adobe buildings seen.

I. Boston Mill:

Located a few miles north of Charleston on east bank of San Pedro; hike along road of Boquillas Land and Cattle Company; leave unpaved road east of Charleston at second gate from river hiking about one mile where artifacts and arrowheads may still be found; stones laid out in shape of buildings and corrals may be seen, too; some porcupine and javelina here; mill site is another mile north; watch for uncovered wells.

J. Galeyville:

Travel U. S. Highway 80 to Douglas and on to Rodeo, New Mexico; then, on to Paradise which is in walking distance from Galeyville; old buildings have all been moved to Paradise which is on east slope of the Chiricahua Mountains; town established by copper prospectors.

Ghost Towns (continued)

K. Portal:

Located at the head of Cave Creek Canyon; here is Crystal Cavern; Cave Creek Canyon is about 60 miles northeast of Douglas; should be visited when trip made to Paradise and Galeyville.

L. Hilltop:

Located 14 miles south of state highway 86; is five miles north of Paradise; park cars at forks of road in canyon and hike up left fork to upper level; buildings constructed of tin, iron, wood, and adobe all in state of collapse.

| Nature of Activity | Reasons for study of towns: | |
|----------------------|--|--|
| | 1. To visualize the county | |
| | 2. To see history in action | |
| | 3. To lend interest to information | |
| Limiting Conditions: | Groups of fifteen or less Watch for uncovered wells Keep eyes open for snakes! | |
| Time Required: | Your decision | |
| Best Days or Time: | April or May | |

| Place: | Gleeson Museu | m and | l Ghost Town | | |
|--------------|------------------|-------|--------------------|----------|-----------------|
| Address: | Elfrida, Arizona | | | Phone: | None |
| | ontact: Willard | - | | Title: | Owner |
| Nature of Ac | | | following can be s | seen: | |
| | | 1. | Turquoise mines i | n area | |
| | | 2. | Miscellaneous ad | obe ren | nains |
| | | 3. | Relics of pioneer | days | |
| | | 4. | Military relics | | |
| | | 5. | Relics from Fort B | owie | |
| | | 6. | Indian artifacts | | |
| | | 7. | Old bottles contai | ining or | iginal contents |
| | | | Rocks, minerals, | | - |
| Limiting Co | | Non | | | |
| Time Requir | ed: | Abo | ut 45 minutes | | |
| Best Days a | and Time: | A11 - | | | |
| | | | but write for an a | | |

Gleeson originally called "Turquoise." Best for middle and upper elementary grades.

| Place: | Grizzle Peach C | rcha | rd | | |
|-------------|------------------|------------|--|-------------|------------------|
| Address: | Elfrida, Arizona | | | Phone: | 642-3523 |
| - | Contact: Grizzle | | s | Title: | Owner |
| Nature of A | ctivity: | Lea | rnings to be gained | 1: | |
| | | 1. | Appearance of the | trees | |
| | | 2. | Care of peach tree | es | |
| | | 3. | How peaches grow | N | |
| | | 4. | How peaches are | picked | |
| | | 5. | How peaches are | market | ed |
| Limiting Co | | Smā Lat | ointment must be m all groups, 15 to 20 e summer preferred |) seasor | n for visitation |
| Time Requi | | | ut 30 minutes | | |
| | | | day when fruit bei | | |

Comments: A very good resource to show children how peaches grow as few peaches are raised in Arizona. Appointment in advance will enable Mr. Lewis to talk to children. Good resource for all grades.

| Place: | O'Gourek Cattle Ranch at Nickville | | | | |
|---|------------------------------------|--|--|--|--|
| Address: | • | hll, Arizona Phone: 432-4114 bout 20 miles west of Bisbee | | | |
| Person to Contact: Vincent C. O'Gourek Title: Owner | | | | | |
| Nature of A | ctivity | The following observations can be made: | | | |
| | | Difference in Charolais, Herefords, Durhams, Black Angus, and mixed Breeds. | | | |
| | | 2. The roping and separating of cattle. | | | |
| Limiting Co | onditions: | Group size not limited. Observe safety rules Stay with group Spring or fall best season for use of this resource | | | |
| Time Requir | red: | About 30 minutes | | | |
| Best Days a | and Time: | When Mr. O'Gourek is available | | | |
| Comments: | Group leader mu | ust arrange with Mr. O'Gourek for appointment. | | | |

Comments: Group leader must arrange with Mr. O'Gourek for appointment. Cattle will be rounded up and may be viewed from fence. Mr. O'Gourek will talk to group regarding cattle. Best for upper grades.

| Place: | O K Corral | | | | | | |
|-------------|------------------|--|------------------------------|--|--|--|--|
| Address: | Allen Street, To | ombstone, Arizona Phone: 457-2227 | | | | | |
| Person to C | Contact: Mrs.R. | . E. Winkleman | Title: Manager | | | | |
| Nature of A | ctivity | The following can be | seen: | | | | |
| | | 1. Hearse over 100 | years old | | | | |
| | | 2. Carriages and bu | ıggies | | | | |
| | | 3. Interesting object | cts of the 1800's | | | | |
| | | 4. Life-like figures and Doc Holliday | of the Earps, Clantons, y | | | | |
| | | 5. Old stage depot | | | | | |
| Limiting Co | onditions: | Must secure an appoi Winkleman to have fr school groups. | | | | | |
| - | | Observe general rules of good conduct. | | | | | |
| Time Requir | ed: | About 25 minutes. | | | | | |
| Best Days a | and Time: | l Time: Daily 8:30 to 5:30 | | | | | |
| | | | | | | | |

Comments: Not advisable for lower and intermediate elementary grades.

Best for upper elementary and high school groups who are studying Arizona history.

| Place: | Old Cochise County Courthouse Museum | | | | | |
|---|--------------------------------------|---|-----------------|--|--|--|
| Address: | 219 Toughnut St | reet, Tombstone | Phone: 457-3531 | | | |
| Person to C | ontact: William | R. Boulton | - | | | |
| Nature of A | ctivity | The following may I | be seen: | | | |
| | | 1. Mining display | 7S | | | |
| | | 2. Processes of m | nining | | | |
| | | 3. Macia Memoria | al Exhibit | | | |
| | | 4. Old time furnis | shed home | | | |
| | | 5. 1880 Fire Hous | se Exhibit | | | |
| | | 6. Old Post Office Exhibit | | | | |
| | | 7. Cattlemen's ex | khibit | | | |
| | | 8. Innumerable ar | tifacts | | | |
| Limiting Conditions: | | No limit, but groups under 30 are best School groups free Obey general safety rules | | | | |
| Time Required: | | One to one and one-half hours | | | | |
| Best Days and Time: | | 8:30 a.m. to 5:30 p.m. daily | | | | |
| Comments: Very worthwhile for grades 3 to 8 A brochure is given to each visitor Picnic facilities: City Park, one block | | | | | | |

Place: Old Fort Bowie

74

| Address: 8 miles south of | Bowie on dirt road Phone: Tucson 825-3560 | | | | |
|-----------------------------|--|--|--|--|--|
| Person to Contact: Robert] | . Gamer Title: Historian | | | | |
| Nature of Activity | The following can be seen:1. First Butterfield stage station remains 300 feet below Fort Bowie ruins. | | | | |
| | 1,000 acres historic trails. Massacre sites. | | | | |
| | 4. Bascom and Parke camps. | | | | |
| | 5. Tevis Rocks. | | | | |
| | 6. Fort Bowie adobe ruins. | | | | |
| Limiting Conditions: | Spring or fall is the best time for visiting resource. | | | | |
| | Steep walk for one-half mile, so small groups best. | | | | |
| Time Required: | | | | | |
| Best Days and Time: | Arrange in advance for appointment | | | | |
| Comments: | A good resource for establishing Arizona history. Fort established in 1682 for protection from Apaches especially for Butterfield Overland Stage Station. | | | | |

| Place: | Paul Lime Plant | | |
|-------------|-----------------|--|-----------------|
| Address: | Drawer T, Doug | las, Arizona | Phone: 364-2429 |
| Person to C | ontact: Howard | Ames, Jr. | Title: Manager |
| Nature of A | ctivity | The following can be | seen: |
| | | 1. The lime plant | |
| | | 2. Lime | |
| | | 3. Fluxing stone, et | |
| Limiting Co | onditions: | A rather dangerous pla | ace. |
| | | Groups should be take plant from a distance | |
| | | Small groups best. | |
| | | Advised to secure spe | |
| Time Requi | | About 10 minutes | |
| | | When Paul Lime Plant | |
| | | | |

Comments: Explosives are dangerous so advisable to arrange for a speaker to speak to groups. Best for junior high school groups.

| Place: | Rose Tree Inn Museum | | | | |
|-------------|----------------------|--|--|--|--|
| Address: | Tombstone, Ari | zona Phone: 457-3326 | | | |
| Person to C | Contact: B. De | Vere Title: Operator | | | |
| Nature of A | ctivity | The following can be seen: | | | |
| | | 1. Diorama of Earps. | | | |
| | | Old coins, clothing, carbines, and mining equipment. | | | |
| | | Exhibits of purple glass, saddles, traps, bottles, implements of olden times. | | | |
| | | The following can be heard: | | | |
| | | 1. Story of Lady Banksia's Rosebush. | | | |
| | | 2. Story of the Inn. | | | |
| Limiting Co | onditions: | Not over 30 in group. Observe "Hands Off" motto . Arrange for appointment. No charge for school groups. | | | |
| Time Requi | red: | About 45 minutes | | | |
| Best Days | and Time: | Open every day, 9:30 a.m. to 5:00 p.m. | | | |
| | Very informatio | nal. | | | |

Original furniture of Macia family shown. History of Inn and its relation to town given.

| Place: | Schiefflin Hall | Schiefflin Hall | | | | |
|------------------------------|-----------------|--|---|--|--|--|
| Address: | 4th and Freemon | and Freemont, Tombstone, Arizona Phone: 457-2227 | | | | |
| Person to C | Contact: Mrs.R | | Winkleman Title: Manager | | | |
| Nature of A | ctivity | Obs | Observation of: | | | |
| | | 1. | Largest and most historical adobe structure in West. | | | |
| | | 2. | The place where opera, plays, and bettery type shows were seen. | | | |
| | | 3. | Portrait of Ed Schiefflin who struck first silver. | | | |
| | | 4. | Old pictures of area. | | | |
| 5. Old-fashioned greeting ca | | | Old-fashioned greeting cards. | | | |
| Limiting Conditions: | | Nor | ne | | | |
| Time Required: | | About 10 minutes | | | | |
| Best Days and Time: | | Daily 9:30 a.m. to 5:00 p.m. | | | | |
| | | | | | | |

Comments: No appointment needed, but it is wise to make an appointment with Mrs. Winkleman to see the Historama which is free to school groups and their leaders. Place: Tombstone, Arizona: A Registered Historic Landmark

Nature of Activity The following can be observed: 1. Buildings much the same in appearance as in 1881. 2. A number of places can be visited to see how people used to live. 3. The oldest Protestant church in Arizona. 4. Colorful Dragoon mountains. 5. Oldest standing Territorial Courthouse in Arizona. 6. Numerous other things. Limiting Conditions: Average size groups. No appointment necessary but is advisable for points of interest that group may wish to see. Any season. Obey rules of good conduct. The major portion of the day Time Required: Best Days and Time: Any day

Comments: Tombstone is an example of raucous Americans preserved as it was and is still exciting as well as interesting. Is most valuable when groups are studying Arizona and Cochise County history.

Address: 24 miles north of Bisbee on Highway 80

| Place: | Tombstone Epitaph | | | | | |
|--|-------------------|--------------------------|---|----------|--------|--|
| Address: | Tombstone, Ari: | zona | F | hone: 45 | 7-2211 | |
| Person to Contact: (Office9 South 5th) Title: Manager | | | | | | |
| Nature of A | ctivity | See | the following: | | | |
| | | 1. | Where Arizona's old published newspape | | - | |
| | | 2. | Massive cottonwood tree in front of office. | | | |
| | | 3. | Copies of first papers published. | | | |
| | | Do the following: | | | | |
| | | 1. | Sign the Register of your name in print i | | | |
| Limiting Conditions: | | Sta | all groups of about 15 y outside pressroom appointment needed | | | |
| Time Required: | | About 15 minutes | | | | |
| Best Days and Time: | | Open daily except Sunday | | | | |
| Comments: Students learn that paper received its name from its founder, John P. Clum, who said that every Tombstone had its | | | | | | |

Epitaph.

Enjoyable for all grades.

| Place: | Tombstone Historama | | | | |
|---|---------------------|--|-------------------------|--|--|
| Address: | 4th and Freemor | nt Streets | Phone: 457-2227 | | |
| Person to C | | E. Winkleman | 2 | | |
| Nature of A | | Things seen or heard: | | | |
| | | 1. Flames burning to | own. | | |
| | | 2. Water flooding m | ines. | | |
| | | 3. Fortune-hunters 1 | leaving town. | | |
| | | 4. War cry of Apach | e. | | |
| | | 5. Rumble of stagec | oaches. | | |
| | | 6. Creak of wagons | and the crack of whips. | | |
| Limiting Conditions: | | None other than to make appointment for group. | | | |
| Time Required: | | 45 minute show | | | |
| | | Daily 9:30, 11:00, 1:30, 3:00, 4:30 | | | |
| Comments: World's most unusual diorama depicting story of town "too tough to die." | | | | | |

Animated life-like figures moving on revolving stage. Is of value for any grade level. Free to school groups.

| Place: | Underground Mine Tours | | | | | |
|-------------------------|------------------------|-----------------------------------|--|----------|----------------|--|
| Address: | Box 155, Tombs | tone, | Arizona | Phone: | 457-3423 | |
| Persons to | Contact: George | or Sa | ally King | Title: | Managers | |
| Nature of A | ctivity | The | following may be s | seen: | | |
| | | 1. | The Million Dollar | r Stope | | |
| | | 2. | Original timber in | use. | | |
| | | 3. | How ores were mined. | | | |
| | | 4. Tunnel four bloc of Tombstone. | | s long u | under the town | |
| | | 5. | Some dangers of m | nining. | | |
| | | 6. | Silver bearing ore | | | |
| Limiting Conditions: | | | limit to group size , ge groups need flas y together to listen | shlights | · • | |
| Time Required: One hour | | | | | | |
| Best Days and Time: | | | | | | |
| | | | | | | |

Comments: Used to be free to school groups, but for the time being, manager asks 2/3 price or 50¢ for children and \$1.00 for adults. Recommended for junior high and high school.

| Place: | Valley Growers (| Gin, | Incorporated | | | |
|---|------------------|--------------------------|---|-----------------------------|---------------------------|--|
| Address: | Elfrida, Arizona | | | Phone: | Elfrida 642-3471 | |
| - | Contact: A.E.C | | | | Manager | |
| | ctivity | | The following can be seen: | | | |
| | | 1. | Cotton seed. | | | |
| | | 2. | Unginned cotton. | | | |
| | | 3. | Ginned cotton. | | | |
| | | 4. | The gin process. | | | |
| | | 5. | Machinery in oper | | | |
| Limiting Conditions: | | Wri Oct Use Rat | te or call for an ap ober 10 to Decembe e care around machi her dusty. | pointme er 10. inery. | ent from Small groups. | |
| Time Required: | | About 30 minutes | | | | |
| Best Days and Time: | | When gin is in operation | | | | |
| Comments: A most worthwhile resource when or after studying about cotton raising. | | | | | ying about | |

Guide will tell about the ginning process and answer questions.

Place: Wells Fargo Museum Address: 511 Allen Street, Tombstone, Arizona Phone: 457-3398 Person to Contact: Floyd Laughrum Title: Manager Nature of Activity The following can be seen: Largest collection of its kind in 1. Southwest. 2. 16th century and old English guns. 3. Large collection of arrowheads and artifacts. 4. Antique five-room house furnished as in 1881. 5. Original Wells-Fargo Stage Coach. 6. Over 50,000 items. Limiting Conditions: No group limit as to size. Observe "Hands Off" policy At least an hour Time Required: Best Days and Time: 9:00 to 5:00 daily except holidays

Comments: For large groups, provide plenty of supervision. Recommended for all grades. A 25¢ admittance fee is required.

| Place: | Wyatt Earp Museum | | | | | | |
|---------------------|---|------|--|--|--|--|--|
| Address: | 5th and | Toug | hnut, Tombstone, Arizona Phone: 457-2222 | | | | |
| Persons to | Contact: | | Harry StewartTitle: ManagerMrs. Harry StewardTitle: Co-manager | | | | |
| Nature of A | ctivity | | Students may view: | | | | |
| | | | 1. Authentic Earp collection | | | | |
| | | | 2. Famous Gilchriese items | | | | |
| | | | 3. Letters, photos, etc. | | | | |
| | | | 4. Historic maps | | | | |
| | | | 5. Invitation to a hanging | | | | |
| | | | 6. Earp in action | | | | |
| | | | 7. Earp's personal guns | | | | |
| Limiting Co | g Conditions: No specification as to size of group. Groups must have an advance appointmen | | | | | | |
| Time Requi | 'ime Required: About 30 minutes | | | | | | |
| Best Days and Time: | | | Open every day, 9:00 a.m. to 5:00 p.m. | | | | |
| | | | | | | | |

Comments: Not advised for primary or intermediate groups. Truth portrayed which brought an end to lawlessness.

APPENDIX F

INFORMATIONAL LISTING OF COMMUNITY RESOURCES USEFUL FOR FIELD TRIPS TO

ENRICH SOCIAL STUDIES

Please note: Personal information has been redacted due to privacy concerns.

| Place: | American Red CrossBisbee District Chapter | | | | | | |
|---|---|---------------------|-------------------------------|-----------|----------------------------|--|--|
| Address: | C-2 Plaza, 1 | Bisbee, Ariz | ona | Phone: | 432-4522 | | |
| Person to Con | tact: Mrs.A | bbie Bigelov | v Title: | Chairn | nan | | |
| Nature of Activ | vity | Lea | arnings to be | e gained | l: | | |
| | | 1. | Location o District C | | can Red Cross, | | |
| | | 2. | Story of th as related | | can Red Cross Chairman. | | |
| 3. Duties of the America Cross. | | | | rican Red | | | |
| | | 4. | How the A can help u | | Red Cross | | |
| | | 5. | What we s American H | | o to help the ss. | | |
| Limiting Condi | itions: | Groups of | twenty to th | irty bes | t. | | |
| | | quiet when offices. | l dangers bu n going to pu | blic pla | | | |
| Time Required: | | About one- | | | | | |
| Best Days and | Time: | School day | ys by appoin | tment | | | |
| Comments: Mrs. Bigelow will visit schools, too. She will show films. | | | | | | | |

| Place: | The Arizona I | Bank | | | |
|--|--|--|---------------------|-------------|------------|
| Address: | One Main, B | isbee | , Arizona | Phone: | 432-2234 |
| Person to Contact: Gay D. Pilcher Title: Manager | | | | | |
| Nature of Activity The following can be seen: | | | | | |
| | | 1. | People at wor | ĸ | |
| | | 2. | Vault containi | ng valuable | S |
| | Deposits being made and checks being cashed. | | | checks | |
| | | Mimeographed copies of assets and liabilities. | | | assets and |
| | | | Room where cuboxes. | | |
| Limiting Condi | itions: | Grou | p size not ove | er 35. | |
| | | Suggested for children above fourth grade. | | | |
| Time Required: | : | About twenty-five minutes | | | |
| Best Days and | nd Time: By appointment | | | | |
| | | | | _ | _ |

Comments: An excellent resource for children to learn more about.

| Place: | The Arizona 1 | Bank | | | |
|--|---------------|----------------|--------------------------------------|---------------------|--|
| Address: | 10 Bisbee Ro | ad, ' | Warren, Arizona | Phone: 432-5351 | |
| Person to Contact: Mr. Wa | | | | Title: Manager | |
| Nature of Activity The following can be seen: | | | | seen: | |
| | | 1. | People at work. | | |
| | | 2. | Vault where valua | ables are kept. | |
| | | 3. | Deposits being m | ade. | |
| | | 4. | Large rooms wher locked boxes for | | |
| | | 5. | Mimeographed co liabilities. | pies of assets and | |
| | | 6. | People operating | necessary machines. | |
| Limiting Conditions | | | Group sizenot over 25. | | |
| | | Sug | gested for childrer | above fourth grade. | |
| Time Required: | | | About 20 minutes | | |
| Best Days and Time: | | By Appointment | | | |
| Comments: Besides the operation of banking, the children may inspect the Old Bisbee Mineral Collection which is cased in the bank. | | | | | |

| Place: | Arizona Public Service Company | | | | |
|--|--------------------------------|---|-----------------|--|--|
| Address: | Naco Road, I | Bisbee, Arizona | Phone: 432-2281 | | |
| Person to Cont | act: Bob Hol | lland | Title: Manager | | |
| Nature of Activ | vity | Things to do: | | | |
| | | l. Visit Saginaw Dis (150,000 volt cap | | | |
| 2. Recall that power origi Davis Dam and power from there. | | - | | | |
| | | 3. See how electrici various parts of c | - | | |
| Limiting Conditions: | | Justified for small groups. | | | |
| | | Safety precautions must be followed, as situation could be dangerous. | | | |
| Best for children over fifth grade. | | fifth grade. | | | |
| Time Required: | | About 20 minutes | | | |
| Best Days and Time: | | Any school day | | | |
| Comments: Mr. Holland will show cut-down views of transformers and switch breaker when speaking to group. Arrange for appointment. | | | | | |

.

| Place: | Arizona Water Company | | | |
|----------------------------|------------------------------|---|--|--|
| Address: | 44 Main, Bis Plant on Nac | bee, Arizona Phone: 432-5321 o Highway Phone: 432-4752 | | |
| Person to Contact: James H | | I. Reardon Title: Manager | | |
| Nature of Activity | | During this field trip the group should visit:1. The water plant at Naco (4 wells but just 3 used) | | |
| | | 2. Two primary booster stations at Tin Town. | | |
| | | 3. Primary booster station in Tombstone Canyon. | | |
| Limiting Conditions: | | Group size not limited. | | |
| | | Any time but when it happens to snow. | | |
| Time Required: | | About 45 minutes | | |
| Best Days and Time: | | No special time or day | | |
| ~ . | | | | |

Comments: Mr. Reardon will speak to groups after they have made trip telling how water pumped directly from ground, amount pumped daily, how 31 samples sent monthly for testing, etc.

| Place: | Place: Bisbee Daily Review | | | |
|---|--------------------------------|--|--|--|
| Address: | 12 Main Street, | Bisbee, Arizona Phone: 432-2231 | | |
| Person to Contact: Mr. John Newett Title: Manager | | | | |
| Nature of A | The following may be observed: | | | |
| | | 1. Printing and cutting of newspapers | | |
| | | 2. Commercial printing | | |
| | | 3. Linotype machine | | |
| | | 4. Teletype | | |
| | | 5. Press | | |
| | | 6. Type setting | | |
| | | 7. Different kinds of paper | | |
| Limiting Co | onditions: | Group limit: 25 Stairs and machinery safe when directions obeyed | | |
| Time Requi | red: | 30 minutes | | |
| Best Days | and Time: | Weekdays 2:00 to 4:00 p.m. | | |
| Comments | Much worthwhi | le information can be gained from this | | |

Comments: Much worthwhile information can be gained from this resource.

| Place: Bisbee Fire Dep | artment | | |
|--|--|--|--|
| Address: Bisbee, Arizona | Phone: 432-2261 | | |
| Person to Contact: Clyde I | Burchinal Title: Fire Chief | | |
| Nature of Activity: Many learnings may be derived: | | | |
| | 1. Visualization of firemen and fire trucks. | | |
| | 2. What happens when an alarm is turned in to station. | | |
| | 3. How important the fire departments are to the town. | | |
| Limiting Conditions: | | | |
| Time Required: About 30 minutes | | | |
| Best Days and Time: By appointment any school day | | | |
| Comments: There are five fire stations: | | | |

Comments: There are five fire stations;

No. 1 - Main Street, Bisbee, Arizona No. 2 - Tombstone Canyon No. 3 - Lowell Traffic Circle No. 4 - Warren, Arizona No. 5 - Highway 92 and Naco Road

| Place: | Place: Bisbee Lumber Company, Incorporated | | | | |
|---|---|---|------------------------------------|----------|------------|
| Address: | Lowell Plaza, L | owel | l, Arizona | Phone: | 432-2203 |
| Person to C | Person to Contact: Jim Gibbons Title: Yard Sup't. | | | | |
| Nature of Activity | | | different types and erials: | kinds o | f building |
| | | 1. | Plywoods | | |
| | | 2. | Panel of cedar, pin birch, etc. | e, oak, | maple, |
| | | 3. | Other lumber of fir, mahogany | , native | pine, and |
| | | 4. | Sheet rock, concre roofing | te block | s, cement, |
| | | 5. | Cedar shingles | | |
| Limiting Co | onditions: | 20 to 30 in group Follow safety instructions | | | |
| Time Requi | red: | About 45 minutes | | | |
| Best Days | Best Days and Time: Arrange for appointment | | | | |
| Comments: Advisable for pupils above third grade. | | | | | |

Comments: Advisable for pupils above third grade. Resource is very informative as well as interesting.

| Place: Bisbee Police Department | | | |
|---|---|---|--|
| Address: Naco Road, Bis | bee, Arizona | Phone: 432-2261 | |
| Person to Contact: Arthur J. Kent Title: Chief | | | |
| Nature of Activity | Value of Resource: | | |
| | | To aid children in knowing where the Police Department is located. | |
| | 2. To gain an unders of the department. | tanding of some duties | |
| | 3. To ask questions | of Police Chief. | |
| | 4. To listen to talk b | - | |
| Limiting Conditions: Group size 25 to 30. Suggested for any grade level. | | | |
| Time Required: | About 20 minutes | | |
| Best Days and Time: | Best Days and Time: By appointmentany day or time | | |
| Comments: Policeman would be allowed to serve as a resource person | | | |

Comments: Policeman would be allowed to serve as a resource person upon request.

| Place: Chambe | r of Commerce | | | | |
|--|--------------------|--|--|--|--|
| Address: Drawer | I, Bisbee, Arizona | Phone: 432-2141 | | | |
| Person to Contact: H. C. Beall Title: Manager | | | | | |
| Nature of Activity | Students m | ay view the following: | | | |
| | | 200 early photographs and pictures bee dating back as far as 1879. | | | |
| | · · · · | a of underground c o pper mine by Mr. and Mrs. Ralph Hargis rren. | | | |
| | | items pertinent to the early days. | | | |
| Limiting Conditions: Groups of 25 to 30 best. Observe "Hands Off" policy. | | | | | |
| Time Required: | About 30 m | inutes | | | |
| Best Days and Time: Any school day; make appointment | | | | | |
| | () | | | | |

Comments: Mr. Embry (phone 432-3802) has rock collection in Chamber of Commerce which he would be happy to explain if group leader will contact him previous to trip.

Place: City Dog Pound

| Address: Roverville, Lowel | Phone: 432-2261 | | | |
|----------------------------|--|--|--|--|
| Person to Contact: John Le | mon | Title: Manager | | |
| Nature of Activity | Reasons for Field Trip: | | | |
| | 1. To see various kin | ds of dogs. | | |
| | 2. To see different ki | nds of cats. | | |
| | 3. To learn what care | is given the animals. | | |
| | | e who are desirous of secure one at the dog | | |
| | Group size: not over 3 Keep hands out of cage | 0 s | | |
| Time Required: | | | | |
| Best Days and Time: | | | | |
| Comments: | A good resource to shown have proper care. | w how pets should | | |

| Place: | Cochise County Courthouse | | | | | |
|---|--|--|--|--|--|--|
| Address: | North Main Stre | et, Bisbee, Arizona Phone: 432-2267 | | | | |
| Person to C | ontact: T.J.W | Tilson Title: Sheriff | | | | |
| Nature of A | | Resource is recommended as a tour of the courthouse: | | | | |
| | | 1. Jail visitation. | | | | |
| | | 2. View relief map of Cochise County on Courthouse wall. | | | | |
| | | 3. Library. | | | | |
| | | 4. Probation officer. | | | | |
| | | 5. Recorder's Office. | | | | |
| | | 6. Other County Offices. | | | | |
| Limiting Co | onditions: | | | | | |
| Time Requir | red: | One to one and a half hours | | | | |
| Best Days and Time: Any weekday except Monday | | | | | | |
| Comments: | mments: Make an appointment with Sheriff Wilson for conducted tour of Cochise County Courthouse. Officer of each department will explain functions of his department. Speakers from the various offices may be secured to speak to your school group. | | | | | |

| Place: | Cochise County | Jail | | | |
|------------------------------------|-----------------|------------|---|---------|---------------|
| Address: | Courthouse, Bis | sbee, | Arizona | Phone: | 432-2267 |
| Person to C | ontact: T.J.W | | n | Title: | |
| Nature of A | ctivity | | some of the followi | | |
| | | 1. | Radio broadcasting of Cochise County | - | e departments |
| | | 2. | The speed of appre | hension | |
| | | 3. | Fingerprint room. | | |
| | | 4. | Guns, handcuffs, e | etc. | |
| | | | Persons behind bar | | |
| Limiting Co | | Gro Dor | hups of 20 to 30 best n't stare at prisoners | • | |
| Time Requir | | | out 30 minutes or les | | |
| Best Days and Time: By appointment | | | | | |
| | | | | | |

Comments: Sheriff Wilson suggests that this is a must for all intermediate, junior high, and senior high school students to visit. He feels it is a valuable resource for preventing juvenile delinquency.

| Place: Connie's F | lowers | |
|-----------------------|--|--|
| Address: 42 Main, E | Bisbee, Arizona | Phone: 432-2603 |
| Person to Contact: Co | onnie Munset | Title: Owner |
| Nature of Activity | To see different flow | vers and plants such as: |
| | l. Ferns, palms, a | and vines. |
| | 2. Chrysanthemum etc. | s, azaleas, geraniums, |
| | 3. Roses and other | |
| Limiting Conditions: | Groups of 25 to 30. Take care in steppin Observe "Hands Off Plants will differ at | ng about flowers. " policy. different seasons. |
| Time Required: | About 30 minutes | |
| Best Days and Time: | Call for appointment | |
| | | |

Comments: Children can become familiar with some kinds of plants and flowers by visiting flower shops from time to time.

| Place: Copper Queen Library | | | | | |
|--|--|--|--|--|--|
| Address: 6 Main, Bisbee, | Arizona Phone: 432-4232 | | | | |
| Person to Contact: Mary Ho | owe (Mrs. Ed R.) Title: Librarian | | | | |
| Nature of Activity: | Students may: | | | | |
| | 1. Look at books displayed. | | | | |
| | 2. Learn about library facilities. | | | | |
| | 3. Learn use of card catalogue. | | | | |
| | 4. Ask questions. | | | | |
| | 5. Select books. | | | | |
| | 6. Learn that most learnings are derived from books. | | | | |
| Limiting Conditions: 20 to 30 can be accommodated at one tim No loud talking permitted. | | | | | |
| Time Required: | 45 to 60 minutes | | | | |
| Best Days and Time: | Any school day, but check on time. | | | | |

Comments: Mrs. Howe will give a lecture explaining the use of the catalogue, importance of books in life, and an antique book comparison. Most worthwhile when group engaged in research.

| Place: | Economy Building and Supply | | | | |
|--|-----------------------------|------------------|--|----------|------------------|
| Address: | Don Luis, Bisbe | e, Ari | zona | Phone: | 432-5378 |
| Person to C | Contact: John Ec | onomy | | Title: | Manager |
| Nature of A | Activity | | ollowing building n will be seen: | naterial | s, agricultural |
| | | 1. (| Concrete block. | | |
| | | 2. 8 | Sheet rock. | | |
| | | 3. 1 | Plywoods of various kinds. | | |
| | | 4. I | Roofing, cement, e | tc. | |
| | | 5. (| Cedar shingles and | compo | sition shingles. |
| | | 6. 1 | Paneling of cedar, | pine, o | ak, and maple. |
| | | 7. 1 | Various kinds of lu | mber. | |
| Limiting Co | onditions: | Obse | ps of 10 to 15 best rve "Hands Off" po season. | olicy. | |
| Time Requi | red: | About 45 minutes | | | |
| Best Days | and Time: | Tues | days, Wednesdays | , Thurs | days |
| Comments: Arrange for an appointment a few days in advance. Various feeds, grains, and seeds may be observed. | | | | | |

| Place: | El Minuto Tortilla Factory | | | | | |
|--|--|--|-----|--|--|--|
| Address: | 3 Howell Avenue, Bisbee, Arizona Phone: 432-9944 | | | | | |
| | Person to Contact: Ernestine Silva Title: Proprietor | | | | | |
| Nature of A | Nature of Activity The following may be seen: | | | | | |
| | | Kind of flour and conditional different types of t | • | | | |
| | | 2. Tortillas being mad | de. | | | |
| | | 3. Tortillas being bak | | | | |
| Limiting Conditions: Groups of 20 to 30 best. Keep away from machinery. | | | | | | |
| Time Required: About 30 minutes | | | | | | |
| Best Days and Time: Any school day. | | | | | | |
| Comments: This is a good resource when the group has been studying | | | | | | |

Comments: This is a good resource when the group has been studying Mexico.

Places, Addresses, Phone Numbers, and Persons to Contact to tour local grocery stores:

| (1) | El Rancho Village Mar P. O. Box 4078, San Bisbee, Arizona | | Branch | | |
|------|---|--------|--------------------------------------|------------|---------------|
| | Charles Ruggaber, Ma | anage | er | Phone: | 432-5783 |
| (2) | Phelps-Dodge Mercan Copper Queen Plaza Bisbee, Arizona | tile (| Company | | |
| | Bill Wilson, Manager | | | Phone: | 432-2224 |
| (3) | Phelps-Dodge Mercar 405 Arizona Street Warren, Arizona | ntile | Company | | |
| | Drex Kuskie, Manage | r | | Phone: | 432-2842 |
| (4) | Safeway Stores 2 09 Bisbee Road Warren, Arizona | | | | |
| | Arthur Watters, Mana | ger | | Phone: | 432-2775 |
| Natu | are of Activity: | The | following learnings | s can be | derived: |
| | | 1. | How stores are arra | anged. | |
| | | 2. | How foods are dis | played. | |
| | | 3. | Kinds of foods shi | pped from | n other parts |
| | | 4. | Kinds of foods shi countries. | pped to u | s from other |
| | | 5. | Other things are s besides foods. | old in gro | ocery stores |

Local Grocery Stores (continued)

| | 6. How vegetables are kept fresh. |
|---|---|
| | 7. How frozen foods are kept. |
| Limiting Conditions: | Limit group size to 15 or 20. Must observe "Hands Off" policy. Stay together. |
| Time Required to visit any of the markets: | About 40 minutes |
| Best Days and Time: | The first part of the week |
| | |

Comments: All seem to agree that the first part of the week is best as there are not as many customers. However, Safeway's manager says Wednesday or Thursday morning is all right.

Arrange for appointment with manager of the store you wish your group to visit.

| Place: | First National Bank of Arizona | | | | |
|--|--------------------------------|--------|--|-----------|------------|
| Address: | 7 Main, Bisbee | , Ari: | zona | Phone: | 432-2221 |
| Person to C | Contact: Virgil Sv | vanne | er | Title: | Manager |
| Nature of A | ctivity | The | following can be se | en: | |
| | | 1. | People operating m | achines | |
| | | 2. | Large vaultwalk- | -in type. | |
| | | 3. | Deposits being ma | de. | |
| | | 4. | Cashiers taking an | d chang | ing money. |
| | | 5. | Mimeographed cop liabilities. | ies of as | ssets and |
| | | 6. | Room where custom boxes for valuable | | |
| Limiting Co | onditions | Sug | up size not over 35 gested for children | above th | - |
| Time Requi | red: | 20 | to 25 minutes | | |
| Best Days and Time: Call for appointment | | | | | |
| | | | | | |

Comments: Of the three banks listed, this one has the larger operation and bank vault.

•

| Place: | Health Departm | ent o | f Cochise County | | | | |
|--|--|-------|---|---------------|---------------|--|--|
| Address: | School Hill, Bis | sbee, | Arizona | Phone: | 432-5451 | | |
| | Person to Contact: Miss Evelyn Kropp Title: Supervisor | | | | | | |
| Nature of Activity Children will become acquainted with this facility: | | | | | | | |
| | | | By viewing slides i of the office. | llustrat | ing functions | | |
| | | 2. | By meeting the nurs | ses. | | | |
| | | | By talking with the questions. | | - | | |
| Limiting Conditions: | | | Il groups of 10 to 15 erve general rules c | 5. of good | conduct. | | |
| Time Required: About 30 minutes | | | | | | | |
| Best Days and Time: School days, no special time | | | | | | | |
| Comments: Two weeks' notice is needed | | | | | | | |

Comments: Two weeks' notice is needed.

Staff members will also visit school and talk to group:

Mr. Lonnie Bright - Sanitation Miss Evelyn Kropp - Cancer Mrs. Marcia Nygard - Tuberculosis and other topics

| Place: Ja | Place: James Nursery and Supply | | | | |
|--|---------------------------------|---------------------------|---|----------|--------------|
| Address: R | Route 1, Box 70, | , Do | uglas, Arizona | Phone: | 364-8551 |
| Person to Contact: L. H. James Title: Owner | | | | Owner | |
| Nature of Act | ivity: | Mar | ny learnings can be | derived: | |
| | | 1. | Kinds of plants see to be grown in the | | are suitable |
| | | 2. | Kinds of trees and well in the area. | shrubs v | which grow |
| | | 3. | Plants and shurbs which are just being tried in the area. | | |
| | | 4. | Names of growing t | things. | |
| 5 | | 5. | Why fertilizer is us | sed. | |
| | | 6. | Why differend kind insect powders use | - | ays and |
| - | | | ups of 20 to 30. careful not to touch | plants. | |
| Time Required: | | About 45 minutes | | | |
| Best Days and Time: | | Nursery is open every day | | | |
| Comments: Literature will be available to group if advance notice of youngsters' coming given. | | | | | |

Lava rock from area spread in driveway.

| Place: | La Poblana Tortilla Factory | | | | |
|---|-----------------------------|------------------|--|----------|--|
| Address: | Don Luis, Bisbe | ee,A | rizona | Phone: | 432-4672 |
| Person to Contact: Mrs. Leon Garcia Title: Owner | | | | | |
| | Activity | | rnings to be gained: | | nata dina mpana akata ofisa natan kana anya yang |
| | | 1. | How masa is made. | | |
| | | 2. | How hominy is mad | le. | |
| | | 3. | Kinds of corn which | n are be | st to use. |
| | | 4. | How tortillas are m | ade and | d baked. |
| | | 5. | Ingredients used in tortillas. | differe | nt kinds of |
| | | | Machinery used. | | |
| Limiting Co | onditions: | Not Sta | over 20 in a group. y away from machine | ery. | |
| Time Requi | red: | About 30 minutes | | | |
| Best Days and Time: Mondays or Tuesdays in winter | | | | | |
| | | | | | |

Comments: Resource is good to use in connection with study of Arizona and/or Mexico. Mrs. Garcia is an interesting speaker and demonstrates as she speaks.

| Place: | : Lavender Pit Copper Mine | | | | |
|------------------------------------|----------------------------|------------------|--|----------|---------------|
| Address: | State Highway | В О, В | isbee | Phone: | Not needed |
| Person to C | Contact: None | | | | |
| Nature of A | ctivity | See | the following: | | |
| | | 1. | Trucks hauling 65-1 and ore up spiraling Lavendar Pit. | | |
| | | 2. | One of America's m mines. | ost impo | ortant copper |
| | | Hea | r the following: | | |
| | | 1. | Push-button narrati Copper Pit Mine st | ory. | elps-Dodge |
| Limiting Co | onditions: | Ava | limit as to group siz ilable anytime, but y le chilly in winter. | e. | could be a |
| Time Requi | red: | About 25 minutes | | | |
| Best Days and Time: None specified | | | | | |
| | | | | | |

Comments: Lavender Pit embraces over 200 acres and is being enlarged. The pit has been deepened to a depth of 1,000 feet.

This resource is worthwhile when studying the different kinds of mining or when studying Arizona.

| Place: | Location of Naturalization Proceedings | | | | |
|-------------|---|---|--|--|--|
| Address: | Contact County Courthouse or watch Bisbee Review as different organizations sponsor this event. | | | | |
| Nature of A | ctivity | All are welcome to attend the proceedings which are held on May 1 and first Thursday in December. Usually about thirty people from eight different countries are naturalized at each event. | | | |
| Limiting Co | onditions: | No limit to group size. Observe rules of proper conduct. | | | |
| Time Requir | red: | One to two hours | | | |
| Best Days a | and Time: | Check time and place by watching newspaper. | | | |
| | | | | | |

Comments: Recommended for groups studying civics, Arizona, or United States history.

Superior Court Judge Anthony T. Deddens always presides. He may be contact for information concerning time and place of event by calling 432-5393.

| Place: | Mountain States' Telephone Company | | | | |
|--|------------------------------------|--|---|--|--|
| Address: | 11 Bisbee Road, | Warren, Arizona | Phone: 432-2241 | | |
| Person to Contact: Mr. Terrance James Title: Manager | | | | | |
| Nature of Activity The following will be shown: | | | | | |
| | | Operators at work messages to all path | receiving and sending arts of the country. | | |
| | | 2. Modern equipment | | | |
| | | 3. Uses of modern eq | uipment. | | |
| Limiting Conditions: | | No limit to group size. Observe general rules of courtesy. | | | |
| Time Required: | | 30 to 45 minutes | | | |
| | | By appointment on weekdays | | | |
| | | | | | |

Comments: Recommended for units on progress of science and study of communication.

Teachers may borrow educational films by signing up for them in advance. A telephone kit is available for use in the schoolroom.

| Place: | Phelps-Dodge Concentrator (Above Pit on hill) | | | | |
|----------------------|---|--|--|------------------------------|----------------------------|
| Address: | 609 West Vista, | Warr | en, Arizona | Phone: | 432-3218 |
| Person to C | Contact: W.G. | | | | Manager |
| Nature of A | | | ls will observe: | | |
| | | 1. | Ore samples. | | |
| | | 2. | Testing of samples | • | |
| | | 3. | Weighing of sample | es. | |
| · · · · · · · · · | | | Information given b | | |
| Limiting Conditions: | | Grou Chil Dang | ps limited to 15 per dren must be over to gerous, so direction | rsons. welve y ns must | ears of age. be obeyed. |
| Time Required: | | About 20 minutes | | | |
| | | Write for appointment and verification | | | |
| | | | | | |

Comments: Since this is dangerous when rules not obeyed, it might be better to send to the U. S. Bureau of Mines at Tucson, Arizona, for two educational films produced by the Bureau of Mines in cooperation with Phelps-Dodge. Films show all mining operations.

| Place: | Radio Station KSUN | | | | | |
|----------------------|--------------------|--|--|----------|------------|--|
| Address: | Drawer C, Lowe | ell, A | rizona | Phone: | 432-2277 | |
| Person to C | ontact: Joe Von | Kane | əl | Title: | Operator | |
| Nature of Ac | ctivity | Den | Demonstrations of the following: | | | |
| | | 1. | Messages being ser | nt by pl | none. | |
| | | 2. | Newspaper reports h network. | being re | eceived by | |
| | | 3. | Recordings of messa cribed and how they | - | | |
| | | 4. | Questions answered | l, also | | |
| Limiting Conditions: | | Groups limited to 15. Grades four to eight. | | | | |
| Time Required: | | About 25 minutes | | | | |
| Best Days and Time: | | | Any time, weekdays | | | |
| | | | | | | |

Comments: It would be well to take this trip on the day of the trip to the \underline{Review} office.

| Place: Reside | nce of |
|--------------------|--|
| Address: | Phone: |
| Person to Contact: | |
| Nature of Activity | The following may be observed: |
| | 1. A collection of items from Korea. |
| | 2. Kodak pictures of Hawaii. |
| | 3. Large collection of antique dishes. |
| | 4. A "coverlid" bedspread that is over 100 years old; also three dolls of same old age. |
| Limiting Condition | s: Since the place is small, the best use of resource would be a planned interview by a committee. |
| Time Required: | About 30 minutes |
| Best Days and Tim | |
| Comments: | has Barred-rock chickens. |
| | is an interacting convergationalist and |

enjoys talking with children. She explains things well.

| Place: | Residence of | |
|--------------|-----------------|---|
| Address: | | Phone: |
| Person to C | ontact: Mrs. | |
| Nature of Ad | ctivity | Learnings to be gained: |
| | | The difference in size, shape, and height of trees. |
| | | 2. The difference in leaves of trees. |
| | | 3. How to tell the following: |
| | | a. Red bud b. Common maple c. Kentucky maple d. Red locust e. Silver maple f. European birch g. Arizona cypress h. Colorado blue spruce i. Cherry, peach, apricot |
| Limiting Co | nditions: | Groups of 10 to 15 best March or April best time. |
| Time Requir | ed: | About 45 minutes |
| Best Days a | and Time: | Any day by appointment |
| Comments: | Many other pers | ons have a fair selection of trees, but this |

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is recommended as one of the best.

| Place: | Ruth's Flower Shop | | | | |
|----------------------|---|---|---------------------|--|--|
| Address: | Arizona Public S | ervice Building | Phone: 432-3541 | | |
| Person to C | ontact: Ruth J. | Hendricks | Title: Owner | | |
| Nature of A | ctivity: | To show the beauty and variation of flowers and plants: | | | |
| | | 1. Ferns, palms, and | vines. | | |
| | | 2. Roses and other cu | t-flowers. | | |
| | | 3. Chrysanthemums, a etc. | azaleas, geraniums, | | |
| | | 4. Leaves and mosses | 5. | | |
| Limiting Conditions: | | Groups of 15 to 20 best. Variety of plants seen is more or less seasonal. | | | |
| | | Remember to look at pla touch them. | ants, but do not | | |
| Time Required: | | About 30 minutes | | | |
| Best Days and Time: | | Call for appointment | | | |
| Comments: | Recommended as an aid in teaching various kinds of plants and flowers. | | | | |
| | Mrs. Hendricks is an interesting speaker. The children will enjoy listening as she tells them about flowers and their care. | | | | |

| Place: | Southwest | : Traildust | Zoo | | | | |
|----------------|------------|-------------|--|----------------------|----------|--|--|
| Address: | Double Ad | lobe Road, | Bisbee, Arizona | Phone: | 432-5841 | | |
| Person to C | ontact: H | loward Ham | ım | Title: | Manager | | |
| Nature of A | ctivity | Maı | Many things can be viewed: | | | | |
| | | 1. | Local animals of t | he area. | | | |
| | | 2. | Items of historical | interest | | | |
| | | 3. | A few plants, such plant and rubber p | | fig-leaf | | |
| | | 4. | Many reptiles. | | | | |
| | | 5. | Small aquarium. | | | | |
| | | 6. | Paintings. | | | | |
| Limiting Co | onditions: | Lar | ups size should be ger groups may be d season all right. | 35 to 40 livided. | | | |
| Time Required: | | | out 45 minutes | | | | |
| | | λ | | | | | |

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Best Days and Time: Any day from 10:00 a.m. until dark.

Comments: Appointment not needed but is preferable.

Future plan is that zoo will become "Cochise County Zoo," an educational project of Cochise College.

| Place: U.S. Post Offic | ce of Bisbee, Arizona | | | |
|---|--|-----------------|--|--|
| Address: South Main, Bis | bee, Arizona 85603 | Phone: 432-2052 | | |
| Person to Contact: Eric E. Nelson Title: Postmaster | | | | |
| Nature of Activity Observations of following: | | | | |
| | 1. Automatic cancelli | ng machine. | | |
| | 2. Direction of mail d | lispatch. | | |
| | 3. Air mail dispatch. | | | |
| | Weighing mail and determining parcel post rates. | | | |
| | 5. Sorting of mail and placing it in boxe | | | |
| | 6. Handling of money | orders. | | |
| | 7. Zip Code divisions | | | |
| Limiting Conditions: | Obey "Hands Off" policy. | | | |
| | About 30 minutes | | | |
| Best Days and Time: Any day, 9:30 a.m. to 2:00 p.m. | | | | |
| Comments: Children of all grades should become familiar with this | | | | |

resource.

Mr. Nelson explains the processes of handling mail and the zip codes.

| Place: | U.S. Post Offi | ce, Warren, Arizona | | | |
|--|------------------|------------------------|---------------------------------|--|--|
| Address: | 319 Arizona, Wa | arren, Arizona | Phone: 432-3431 | | |
| | Contact: Ruth L. | Street | Title: Postmistress | | |
| Nature of A | ctivity | The following may be o | bserved: | | |
| | | 1. Handling of registe | 1. Handling of registered mail. | | |
| | | 2. Handling of money | orders. | | |
| | | 3. Sorting of mail and | placing it in boxes. | | |
| | | post rates. | nd determining parcel | | |
| Limiting Conditions: Group size limited to 10. Obey "Hands Off" policy. | | | 0. Cy. | | |
| Time Required: About 20 minutes | | | | | |
| Comments: This is a small post office so cannot accommodate large groups. Appointment is needed. | | | | | |

| Place: | Warren | Redi-Mix | | | |
|---|---------|--------------|-----------------|----------|----------|
| Address: | Box 297 | , Don Luis, | Bisbee, Arizona | Phone: | 432-4121 |
| Person to C | ontact: | Dave Strickl | and | Title: | Owner |
| Nature of Activity The following learnings may be gained: | | | | gained: | |
| | | 1. | The nature of c | oncrete. | |

| | 2. More knowledge about cement. | | |
|----------------------|---|------------------------------|--|
| | 3. | How concrete is made. | |
| | 4. | Use of sand and gravel. | |
| | 5. | How Redi-Mix is transported. | |
| Limiting Conditions: | Groups of 25 to 30. Seasons when concrete is being made. | | |
| Time Required: | Abo | out 20 minutes | |
| Best Days and Time: | Wh | enever plant is operating | |
| | | | |

Comments: Call for an appointment as plant isn't always in operation. Worthwhile when studying the various materials used in building.

| Place: Western Union 2 | ace: Western Union Telegraph Company | | | |
|----------------------------|--|---|--|--|
| Address: 5 Howell Avenue | 5 Howell Avenue, Bisbee, Arizona Phone: 432-4751 | | | |
| Person to Contact: Mr. Rob | ert Nicol Titl | e: Manager | | |
| Nature of Activity | See or do the following: | | | |
| | See the sending and rec telegrams. | . See the sending and receiving of telegrams. | | |
| | 2. See machines transcrib dashes into messages. | ing dots and | | |
| | 3. Observe sounds of diffe | erent letters. | | |
| | 4. Ask questions about pro | | | |
| Limiting Conditions: | Small groups of 10 to 15. Observe general rules of go | | | |
| Time Required: | Approximately 30 minutes or more. | | | |
| Best Days and Time: | Mondays through Friday, school hours. | | | |
| | | ··· ··· ··· ··· ··· ··· ··· | | |

Comments: Worthwhile when studying ways and means of communication.

Mr. Nicol will talk to groups and answer questions.

APPENDIX G

PERSONS WITH BROAD TRAVEL EXPERIENCE AVAILABLE FOR RESOURCE PURPOSES IN SOCIAL STUDIES CLASSES

Please note: Personal information has been redacted due to privacy concerns.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Has traveled in most of the United States.
- 2. Has traveled in Canada and the Orient.
- 3. Has stamp collections of countries all over the world.
- 4. Will give talks regarding countries by appointment.

| | · · · · · · · · · · · · · · · · · · · | |
|----------|---|------|
| Name: | ł | |
| Address: | | |
| Phone: | | |

- 1. Traveled in all states but four.
- 2. Will show slides and pictures.
- 3. Has many slides of Arizona.

| Name: | |
|----------|-----------------|
| Address: | |
| Phone: | None at present |

- Has traveled into Culican Sinola, Mexico, and Mazatlan, Mexico.
- 2. Has many, many kodak pictures and postcards.
- 3. Has some items made in Mexico.
- 4. Good speaker for small groups only

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Traveled widely in Japan, Okinawa, Hong King, and Singapore.
- 2. Will tell about country.
- 3. Has few photos to show.
- Also has collection of about fifty specimens of rocks and native minerals.

| Name: | l |
|----------|---|
| Address: | |
| Phone: | |

- 1. Has traveled in Alaska and New England states.
- 2. Has a German shepherd from Alaska which she shows to children.
- 3. Has photos and pictures of above areas.
- 4. Is an able speaker.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Traveled in Korea, Japan, and Greenland.
- 2. Is an able speaker.
- 3. is Director of the Bisbee Recreation Center.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Traveled widely in Japan, Scotland, Oreland, Russia, and Hawaiian Islands.
- 2. Plans to go to Alaska summer of 1968 and take slides.
- 3. Has 80 slides on Russia.
- 4. Will speak to groups by appointment November to May as he travels the rest of the year.

| Name: | | |
|----------|--|--|
| Address: | | |
| Phone: | | |

- 1. Traveled throughout Mexico and most of the United States.
- 2. Works as a Customs Agent in values investigation and aids in apprehension of narcotic smugglers on Mexican border.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Has a great deal of knowledge about Germany, France, Russia, and Hungary.
- 2. Also has case of rocks and minerals.
- 3. Has small coin collection.
- 4. Will talk to small school groups.
- 5. Call to arrange for an appointment.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Toured western and southern states, Cuba, Peru, Brazil, Chile, and Bolivia.
- 2. Has money from a number of the countries.
- 3. Will talk to school groups.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Wide travel experience which includes France, Switzerland, Spain, Austria, Czechoslovakia, and Rome, Italy.
- 2. Has slides of all countries visited.
- 3. Has foreign money and curios.
- 4. Call to make an appointment for your group.

| | · | |
|----------|---|--|
| Name: | | |
| Address: | | |
| Phone: | | |

- 1. Lived in Hawaii on Oahu for three years.
- 2. Has pictures, clothing, and curios.
- 3. Will make appointments to give talks on weekends or evenings.

| Name: | | | | |
|----------|--|--|--|--|
| Address: | | | | |
| Phone: | | | | |

- 1. Traveled in Philippines, and Saipan.
- 2. Has pictures and picture booklets.
- 3. Will speak by advance appointment

| Name: | | | |
|----------|--|--|--|
| Address: | | | |
| Phone: | | | |

- Was an army nurse in Africa, Burma, and India during World War II.
- 2. Has some pictures to show.
- 3. She will be happy to speak to school groups.
- 4. Call her to make an appointment.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- Travels include the entire U. S., Europe, Japan, Korea, and Hawaii.
- 2. Has pictures and curios of areas.
- 3. Will speak to groups regarding any of the countries listed.
- 4. Is an interesting speaker.

| Name: | | |
|----------|--|--|
| Address: | | |
| Phone: | | |

- 1. Spent fifteen months in Hawaii.
- 2. Has pictures of Hawaii.
- 3. Has booklets depicting Hawaii.
- 4. Will serve as a resource person during study of Hawaii.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Traveled in Mexico, New Mexico, and Arizona.
- 2. Has pictures of many areas of Mexico.
- 3. Has collection of Indian artifacts.
- 4. Will share experiences with schools.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Spent one year in Greenland.
- 2. Will talk to school groups and show slides of travels.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

| Background | and | Comments: |
|------------|-----|-----------|
|------------|-----|-----------|

- 1. Has traveled through Mexico and Mexico City.
- 2. Has pictures and snapshots of Mexico.
- 3. Has good collection of Indian artifacts (over 200 pieces in collection.
- 4. Will speak to groups of children or to PTA groups.
- 5. Arrange for appointment well in advance.

| | | |
|----------|------|---|
| Name: | | |
| Address: | | ļ |
| Phone: | | |

- 1. Travel experience includes Mexico, Canada, Iceland, Germany, Bavaria, Austria, Netherlands, etc. (Slides)
- 2. Welcomes interviews.

| Name: | | | | | |
|----------|--|--|--|--|--|
| Address: | | | | | |
| Phone: | | | | | |

- 1. Specialist in Arizona geography and places of interest in the state.
- 2. Has slides of Arizona, mertate and manos, bowls, Indian artifacts.
- 3. Will talk to small school groups by appointment.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Several dolls of foreign countries.
- 2. Travel experience includes France, Germany, Austria, Switzerland, and Italy.
- 3. Will speak to children's groups on request.
- 4. Has postcards and picture albums of countries.

| Name: | | l | |
|----------|--|---|--|
| Address: | | | |
| Phone: | | | |

- 1. Has traveled through Far East, Japan, and Korea.
- 2. Collected a few pictures.
- 3. A good person to interview as she is a teacher.
- 4. Will speak to groups evenings by appointment.

| Name: | | |
|----------|--|---|
| Address: | | l |
| Phone: | | |

- 1. Extensive travel to Spain, Portugal, France, Italy, Switzerland, England, New Guinea, and Philippines.
- 2. An excellent historian.
- 3. Will speak to school groups by appointment.
- 4. Suggested for grades 3 to 8.
- 5. May be interviewed by committee or individuals.

APPENDIX H

PERSONS HAVING HISTORICAL KNOWLEDGE AVAILABLE FOR RESOURCE PURPOSES IN SOCIAL STUDIES CLASSES

Please note: Personal information has been redacted due to privacy concerns.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Actually a pioneer of Cochise County.
- 2. May be interviewed by individuals or committee.
- 3. Will serve as a resource person during study of Arizona history.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Granddaughter of gold-seeking Bisbee pioneer.
- 2. Has personal collection of photographs and museum pieces dating back to 1881.
- 3. Will speak to school groups.
- 4. A most able speaker, and author.

| Name: | | |
|----------|--|--|
| Address: | | |
| Phone: | | |

- 1. Has maps of Arizona dating back to 1687.
- 2. Has collection of old pictures of places in County.
- 3. Collection of Indian relics and artifacts.
- 4. May be interviewed.
- 5. Will speak regarding Arizona history to small groups.

| Name: | | |
|----------|--|--|
| Address: | | |
| Phone: | | |

- 1. A specialist in juvenile problems.
- 2. Well-informed on Bisbee history.
- 3. Excellent resource person for grades 4 to 8.
- 4. Will speak to P.T.A. groups.

APPENDIX I.

COCHISE COUNTY RESOURCES THAT MAY BE USED FOR FIELD TRIPS IN SCIENCE CLASSES

| Place: | Carr Canyon | | | |
|---------------------------------|--------------|---|---|--|
| Location: | | 26 miles from Bisbee on Highway 92 S.W.; then 6-1/2 miles west of highway up canyon. | | |
| Nature of Activity | | Rea | sons for trip: | |
| | | 1. | To study varied soils | |
| | | 2. | To study rock formations | |
| | | 3. | To get red clay for clay activities | |
| | | 4. | To study flora and fauna | |
| | | 5. | To study rocks and minerals | |
| Limiting Cond | itions: | Gro | oups of ten or less | |
| | | Wa | tch for rocks that roll | |
| | | | t to go in May or June due to road ditions | |
| Time Required: One hour or more | | | | |
| Comments: | The red clay | lay is very usable and seems to fire quite well. | | |

Comments: The red clay is very usable and seems to fire quite well. The few who go may report to the rest of the group.

| Place: | Cave Creek 1 | Recre | eation Area |
|--|---|-------------------------------------|--|
| Location: | 11 miles nor 60 miles nor | | st of Rodeo, New Mexico; Douglas |
| Nature of Activity | | Rea | sons for trip: |
| | | 1. | To see mammoth red rock domes containing small caves. |
| | | 2. | To see weird and unusual rock forma- tions such as slipped, tilted, and pushed up rocks. |
| | | 3. | To study flora and fauna. |
| | | 4. To study soils | |
| Limiting Conditions: | | Roa | nd may be bad during rainy season. |
| | | Gro | oups of eight or ten best. |
| Most things may be seen in May or Ju and may be more enjoyable then due t warmer weather conditions. | | l may be more enjoyable then due to | |
| Time Required: As much as one cares to spend. | | much as one cares to spend. | |
| Best Days and Time: | | A w | veekend campout is desirable. |
| Comments: | Numerous ca | mpir | ng and picnic spots. |
| | Many scientific learnings may be derived if class prepared for them previous to experience. | | |

| Place: | Chiricahua National Monument | | | | |
|----------------------|--|----------------------------|---|----------|-------------|
| Address: | Star Route, V | Villcoz | x, Arizona | Phone: | None |
| Person to Cont | Person to Contact: Superintendent, Chiricahua National Monument, Willcox, Arizona 85643 | | | onument, | |
| Nature of Activity | | The following can be seen: | | | |
| | | 1. 1 | 17 miles of fantas | tic rock | formations. |
| | | 2. 1 | Museum at Visitor | Center | • |
| | | 3. E | Balanced rocks of | rhyolite | |
| | | 4. \ | Varied flora and fa | auna. | |
| | | 5. \ | Various minerals. | | |
| Limiting Conditions: | | Keep Do no | p limit should be on hiking trails ot roll or throw ro , don't run | | |
| Time Required: | | Two to three hours | | | |
| Best Days and Time: | | - | g and Fall9:30 all year, howeve | to 5:00 | |
| Comments: | Comments: Guided tours 9:30 to 2:30 Saturdays and Sundays. Recommended when studying rock formations. | | - | | |

| Place: | Continental I | Continental Divide | | |
|---|---|---|--|--|
| Location: | l mile north of Bisbee on old highway above Mule Pass Tunnel | | | |
| Nature of Activity | | Reasons for trip: | | |
| | | 1. To note results of the divide | | |
| | | 2. To note land forms | | |
| | | 3. To study rock formations, trees, shrubs, etc. | | |
| | | 4. To note rock disintegration | | |
| | | 5. To note visible tree roots 20 to 30 feet in length between stones along bank | | |
| | | 6. To note history related on Continental Divide marker stone | | |
| Limiting Cond | itions: | Groups not limited to size Do not roll rocks Available any season | | |
| Time Required | : | About 45 minutes | | |
| | Time: | No specifications as to time | | |
| Comments: This is a useful resource for social studies. | | | | |

| Place: | Excavation A | .rea, | University of Arizona | | |
|---------------------|---------------|----------------|--|----|--|
| Address: | Hereford, Ar | izona | Phone: 366-555 | 4 | |
| Person to Con | tact: Ed Lehr | ner | Title: Owner | | |
| Nature of Activity | | Rea | Reasons for trip: | | |
| | | 1. | To study soils: loam, red clay, green clay, black humic layer, bo horizon, coarse sand, fine sand, young brown soil | ne | |
| | | 2. | To study micro-fossils | | |
| | | 3. | To study location of elephant bone | s | |
| | | 4. | To listen to Ed Lehner's talk regarding area | | |
| Limiting Conditions | | No | oups of 20 to 30 or so special hazards or seasonal ctors involved | | |
| Time Required: | | About one hour | | | |
| Best Days and | Time: | | l for appointment | | |
| Comments: | Resource is | loca | mereford cattle which may be of inte ted 14 miles west of Bisbee. Take , then go 3 miles north on Palomina | | |

| Place: | Nicksville Cafe and Store | | | | | |
|---|-------------------------------------|---------|--|----------|-------------|--|
| Address: | Nicksville, Arizona Phone: 458-9942 | | | 458-9942 | | |
| Person to Cont | tact: Ruth Di | | | Title: | | |
| Nature of Activity | | | The following may be seen: | | | |
| | | 1. | Indian artifacts | | | |
| | | 2. | Skeleton of Indiar position | n buried | in sitting | |
| | | 3. | Rocks and minera | ls | | |
| | | 4. | Sand paintings do or ground rocks ir | | | |
| | | 5. | Clay articles mad | e from r | native clay | |
| - | | | oups of 15 to 20 as serve "Hands Off" | | small | |
| Time Required: | equired: About one-half hour | | | | | |
| Best Days and Time: Open every day, but ap | | ppointm | ent needed | | | |
| Comments: A very good resource for learning what can be done with | | | | | | |

Comments: A very good resource for learning what can be done with sand in sand paintings; an excellent source of scientific information.

Place: Red Clay Deposits

Location: 5 miles north of Highway 80 west of Douglas on The King's Highway. Turn into old dump area.

| Nature of Activity | Reasons for trip: | |
|----------------------------|---|--|
| | 1. To study soils of area. | |
| | 2. To note erosion. | |
| | 3. To gather red clay. | |
| Limiting Conditions: | No limit to group size. May use this resource at any time. | |
| Time Required: | 30 minutes | |
| Comments: This is a good r | ed clay which fires well. When fired it | |

Comments: This is a good red clay which fires well. When fired it turns pink.

Several soil types may be observed where erosion has occurred.

Place: Rucker Canyon Recreation Area

Location: About 57 miles from Bisbee; turn east off Route 666 and follow Rucker Canyon Road

| Nature of Activity: | Reasons for trip: | |
|----------------------|---|--|
| | 1. To have a room picnic. | |
| | 2. To see Rucker Dam. | |
| | 3. To see large squirrels, such as the Red Fox squirrel. | |
| | 4. To study flora. | |
| | 5. To study rocks and minerals of area. | |
| Limiting Conditions: | Camp Rucker best for large groups as there is room for baseball, etc. | |
| | During rainy season road to dam may be impassable. | |
| Time Required: | Several hours | |
| Best Days and Time: | In spring near close of school | |

Comments: Elevation 6,500 feet.

Several well-maintained campgrounds with modern facilities.

Plenty of trails for hiking and nature study.

Place: Rustlers' Park

Location: In Chiricahua Mountains at 8,400 foot elevation; about 100 miles from Bisbee via U. S. 666 and State Highway 181.

| Nature of Activity | Reasons for resource trip: | |
|----------------------|--|--|
| | 1. To impress history of Arizona. | |
| | To study rocks, soils, and minerals of area. | |
| | 3. To study flora and fauna of area. | |
| Limiting Conditions: | Groups of 30 to 40. | |
| | September or May best due to weather and road conditions. | |
| Time Required: | As much as can be devoted. | |
| Best Days and Time: | Weekend campout or picnic day. | |
| | | |

Comments: In spring, resource area is a flower bed of wild iris; gorgeous displays of other wild flowers such as lupines, primroses, paint brushes, geraniums, gilia, penstemons, blue bells, fairy dusters, etc.

Be sure to have plenty of gas as you may wish to visit Chiricahua National Monument, too.

| Place: | Southwestern Research Station | |
|-------------|-------------------------------|-----------------|
| Address: | Portal, Arizona 85628 | Phone: 602-2396 |
| Person to C | ontact: Vincent D. Roth | Title: Director |
| | | |

| Nature of Activity | This is a permanent year-round field laboratory open to students investigating science problems involving the use of the floral, faunal, and geological features of the area. | | | | |
|----------------------|---|--|--|--|--|
| | No exhibits designed for the public. | | | | |
| | Plant and animal life may be studied in five different zones. | | | | |
| Limiting Conditions: | High school and college students only. | | | | |
| | If residence desired, make application for fees and admittance. | | | | |
| | | | | | |

Comments: Call for appointment.

Listed due to the fact that teachers may be interested.

| Place: | Spe | Special Rock Formations Near Bisbee | | |
|----------------------|---|---|---------------------|--|
| Location: | (2) | 12 miles north of Bisbee east of U. S. 80. 6-1/2 miles north of Bisbee on west of U. S. 80. Just east of Lowell and the traffic circle. | | |
| Nature of Activity | | Form | nations to be seen: | |
| | | | 1. | Tilted rocks |
| | | | 2. | Evidences of wrinkling and folding |
| | | | | Leveled rocks |
| Limiting Conditions: | | | ll groups | |
| | | | - | y in group as group must remain fairly se to highway. |
| | | | - | time of year satisfactory |
| Time Required: | | 15 r | ninutes | |
| Comments: | Comments: Resources very worthwhile when studying about the | | | |

Comments: Resources very worthwhile when studying about the changing surface of our earth.

Place: Texas Canyon

| Location: On edge of tow | n of Benson, Arizona, just off State Highway 86 |
|---|---|
| Nature of Activity | Reasons for trip: |
| | To see towering rocks carved by nature into awe-inspiring contours. |
| | 2. To note soils of area. |
| | 3. To study flora and fauna of area. |
| Limiting Conditions: | No limit to group size. Watch for snakes during warm weather. |
| Time Required: | About an hour |
| Best Days and Time: | After group's visit to Amerind Foundation |
| Comments: Resource is mo nearby picnic a | est picturesque. Group can eat lunch at area. |

Place: Tree House

Location: In midst of St. David Valley on U. S. 80, 8 miles north of Tombstone, Arizona

| Nature of Activity | The following may be seen: |
|--------------------------|---|
| | Cottonwood (poplar) with a circum- ference of 21 feet which was planted by Mormons in 1870's and now uses 500 gallons of water daily. |
| | Excellent collection of rocks and minerals. |
| | 3. Miscellaneous artifacts. |
| Limiting Conditions: | |
| Time Required: | About 20 minutes |
| Best Days and Time: | Weekends 9:00 a.m. to 6:00 p.m. |
| Comments: No appointment | is needed; however, if so desired, |

Comments: No appointment is needed; however, if so desired, Mrs. Eleanor Libby of St. David may be contacted. Resource is open daily in the summer time.

Place: Turkey Creek Canyon

Location: Near Wonderland of Rocks

| Nature of Activity | The following can be seen: |
|----------------------|---|
| | 1. Five kinds of hummingbirds. |
| | 2. Many kinds of birds. |
| | 3. Numerous butterflies. |
| | Wild turkes or tracks, feathers, and an occasional gobbler. |
| | 5. Deer and squirrels. |
| | 6. Many kinds of flora. |
| Limiting Conditions: | Roads may be bad during rainy season, so spring is best. |
| | Small groups, as more can be seen and heard. |
| Time Required: | About two hours |
| Best Days and Time: | A weekend campout preferable |
| | |

Comments: Canyon received its name from the flocks of wild turkeys that fatten on the wild oats. The rare ivory-billed wood-pecker and coppertailed trogon found here.

APPENDIX J

COMMUNITY RESOURCES TO ENRICH SCIENCE CLASSES

Please note: Personal information has been redacted due to privacy concerns.

| Name: | Ted R. Allen, | , Minerals and Gems | |
|-----------------|----------------|---|------------------------|
| Address: | 56 Black Kno | b, Warren, Arizona | Phone: 432-5050 |
| Person to Cont | tact: Ted R. A | | Title: Owner |
| Nature of Activ | vity | Students will see the | following: |
| | | 1. Rocks, minerals | , and gems |
| | | 2. Small boxed coll of being labeled | ection in process |
| | | 3. Gem cutting and | the making of gem sets |
| | | 4. Stone polishing | |
| Limiting Condi | itions: | Not over 30 in a grou No special dangers | - |
| Time Required: | | 30 minutes | |
| | | Call for an appointme | ent |
| Comments: | Educational 1 | resource for those inte | |

Comments: Educational resource for those interested in learning the names of rocks and minerals.

| Place: | Bisbee Miner | als and Gem Shop |
|-----------------|--------------|---|
| Address: | P. O. Box 46 | 6, Bisbee, Arizona Phone: 432-3073 |
| | | E. Youngblood Title: Owner |
| Nature of Activ | | Students may observe: |
| | | 1. Various minerals and gems |
| | | 2. Some precious stones |
| | | 3. Antique displays |
| | | 4. Carved woods |
| | | 5. Fossil displays |
| Limiting Condi | tions: | Not over 20 in a group Observe "Hands Off" rule |
| Time Required: | | 30 minutes |
| Best Days and | | Monday through Friday; call for appointment |
| Comments: | - | ood is willing to bring specimens and s and minerals in the classroom by |

| Name: | Boyce Terrell | Mills (Rocks and Minera | als) |
|----------------------|---------------|---|-----------------|
| Address: | 41 Hazard St | reet, Warren, Arizona | Phone: 432-2913 |
| Person to Cont | - | errell Mills | Title: Owner |
| Nature of Activ | | Students may observe: | |
| | | 1. Minerals and gems | of area |
| | | 2. Minerals and gems | of other areas |
| | | 3. Over 300 specimen | |
| Limiting Conditions: | | Small groups preferred Observe "Hands Off" po | olicy |
| Time Required: | | | |
| Best Days and | Time: | Make an appointment | |
| Comments: | | collection is cased and comes group and is ver | |

Mr. Mills welcomes group and is very happy to explain, discuss, and answer questions regarding the collection.

| Name: | |
|-------------------------|---|
| Address: | Phone: |
| Person to Contact: | Title: Owner |
| Nature of Activity | The following may be seen: |
| | 1. Very fine bottle and lid collection. |
| | 2. About 75 pieces of doll furniture made of pine, maple, and mesquite. |
| | 3. Albums of foreign stamps and United Nations stamps. |
| | 4. Over \$50 worth of historical coins. |
| | 5. Purple glass collections. |
| | 6. Specimens of glass turning amber. |
| Limiting Conditions: | Not over 20 in a group Observe "Hands Off" policy |
| Time Required: | About 30 minutes |
| Best Days and Time: | |
| Comments: students on v | works so is not available to groups of week days. |

Wood carvings portray intricate workmanship.

| Name: | Phelps-Dodge | e Office Building |
|----------------------|---------------|---|
| Address: | Arizona and H | Hoatson Streets, Warren Phone: 432-2521 |
| | | argaret Bigham Title: Secretary |
| Nature of Activ | | Students may observe: |
| | | Collection of largest gems and minerals in area. |
| | | 2. Ore samples (some lovely large ones). |
| | | 3. Some recent samples. |
| Limiting Conditions: | | Groups of about 20 preferred No seasonal factors |
| Time Required: | | About 30 minutes |
| Best Days and | Time: | 9:00 to 4:00, Monday through Friday |
| Comments: | | collection of mineral samples taken from e mines: samples of malachite, azurite, |

Comments: An excellent collection of mineral samples taken from Phelps-Dodge mines: samples of malachite, azurite, galena, covelite, chacocite, native copper, barnite, chalcopyrite, aragonite, cuprite, hetaerolite, etc.

| Name: | |
|-------------------------|---|
| Address: | Phone: |
| Person to Contact: | Title: Owner |
| Nature of Activity | Students will observe: |
| | 1. Excellent rock and mineral collection. |
| | 2. Fluorescent minerals. |
| | 3. Names of various rocks and minerals. |
| Time Required: | About 45 minutes |
| Best Days and Time: | |
| Comments: This is anoth | er very good collection. |

made to see rock collection on his day off or in the evening.

| Name: | | |
|---------------------|------------|--|
| Address: | | Phone: |
| Person to Contact: | (1) (2) | Title: Owner Title: Co-owner |
| Nature of Activity | | Students will observe: |
| | | Large miscellaneous rock collection which is well-labeled. |
| | | 2. Fluorescent minerals. |
| | | 3. Rock cutting and polishing of rocks. |
| Limiting Conditions | : | Groups of about 20 or less. Obey rules of good conduct. Suggested for grades 3 to 8. |
| Time Required: | | About one hour |
| Best Days and Time | : | Call for appointment |
| (| are | ine collection of minerals and rocks. good speakers and can hold interest |

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APPENDIX K

RESOURCE PERSONS WITH SCIENTIFIC KNOWLEDGE,

HOBBIES, OR COLLECTIONS

Please note: Personal information has been redacted due to privacy concerns.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Soil Conservation
- 2. Suggested for grades 4 to 8
- 3. May be interviewed by individual or committee
- 4. Will speak to groups by appointment.
- 5. Will serve as a resource person during study of soil conservation.

| 6 | |
|----------|--|
| Name: | |
| Address: | |
| Phone: | |

- 1. Has three cases of rocks and minerals.
- 2. Has some old coins.
- 3. Will speak to interested groups.
- 4. Would show specimens.

| Name: | |
|----------|--|
| Address: | |
| Phone. | |

- 1. Manager, Phelps-Dodge Mines.
- 2. Arrange for speaker on mining operations.
- 3. would speak regarding nuclear blast or underground operations.
- 4. In case he is not available, he will arrange for another speaker as a substitute.

| Name: | |
|----------|-----------------------|
| Address: | |
| Phone: | Not listed at present |

- 1. Raises cacti as hobby.
- 2. Has cacti from most every country in the world in greenhouse.
- 3. Cross-pollinizes cacti for new species.
- 4. May be interviewed by students or will show small groups of high school or college age the specimens.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

- 1. Shows sun's effects in coloring jars and other containers purple.
- 2. Good learning experience when studying effects of sun and heat.
- 3. She is willing to talk to school groups.

| Name: | |
|----------|--|
| Address: | |
| Phone: | |

Background and Experience:

- 1. Is lineman for Public Service.
- 2. Is informed regarding wiring, transformers, high voltage lines and their dangers, etc.
- 3. Will speak to groups evenings or weekends by appointment.
- 4. Worthwhile resource person when group studying electricity.

Name: T. J. Wilson, Sheriff

Address: Courthouse, Bisbee, Arizona

Phone: 432-2267

- 1. Informed regarding the growth, use, and effects of marijuana.
- 2. Will show marijuana or Indian hemp samples.
- 3. Will show marijuana cigarettes and reefers.