

NATURALIST LECTURE STUDY
ROCKY MOUNTAIN NATIONAL PARK - 1948

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Naturalist Lecture Study in
Rocky Mountain National Park
1948

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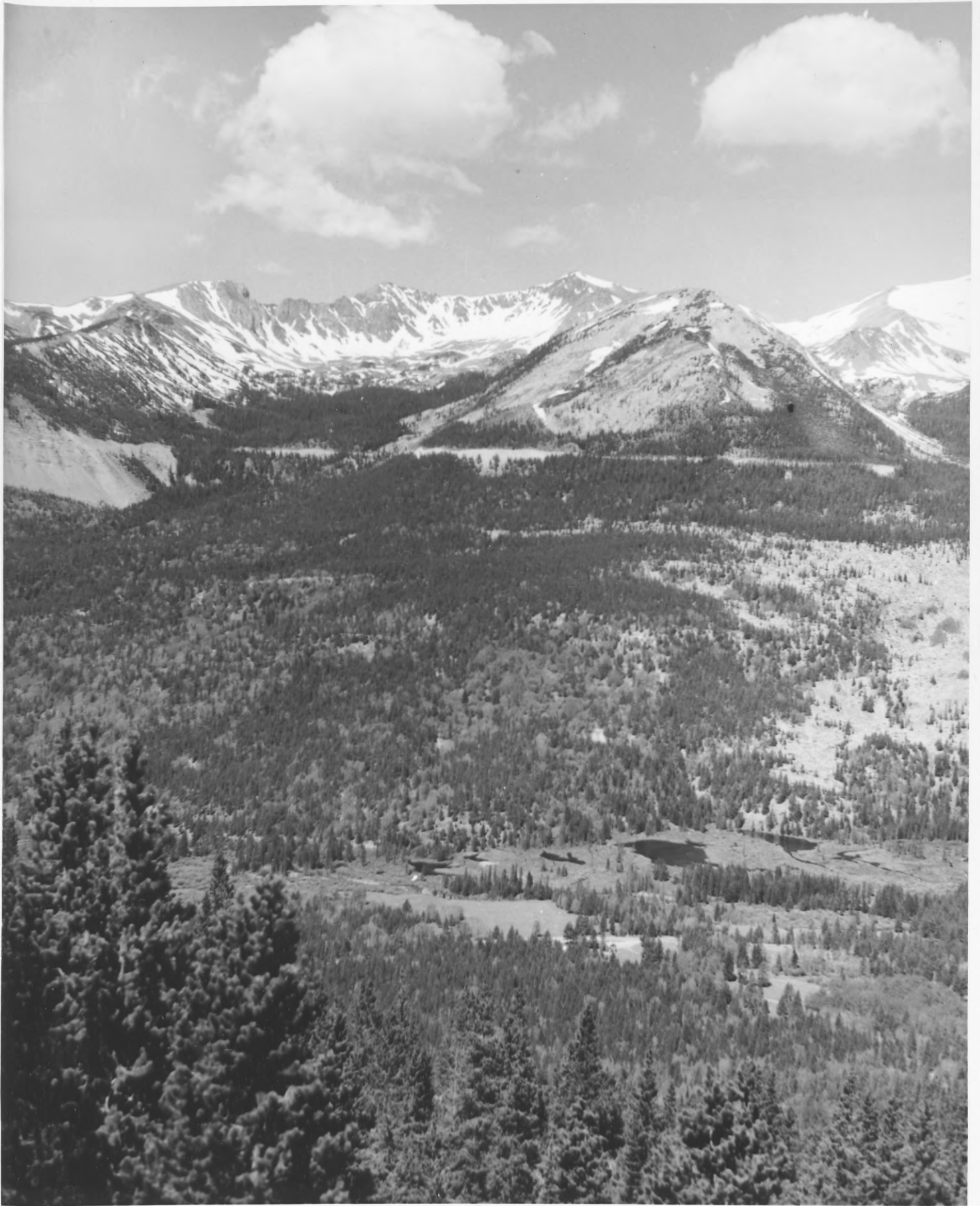
By James Gilligan
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CONTENTS

	Page
Introduction	1
The Purposes	3
The Method	4
The Results.	7
Conclusions and Recommendations.	37
The Park Service and the Naturalist in the National Scene.	49
Appendix A (Sample questionnaire)	53
B (Sample tabulation form)	54
C (Compilation sheet).	55
D (1948 lecture programs).	56

Illustrations:

Colorado River Valley and Part of the Never Summer Range. View from Trail Ridge Road.	1
Hallets Peak and Dream Lake. A half-hour hike from Bear Lake Parking area in R.M.N.F.	2a
Interest-Fever Chart for Park Visitors.	9a
Looking Down on Chasm Lake on the Long's Peak Climb	9b
Stormy Weather on the Narrows-- Long's Peak Climb.	9c
Balance Scale of Public Service (Chart)	42
Naturalist's Circle of Confusion (Chart).	43
Lecture Audience at Moraine Museum Picture No. 1	51
Picture No. 2	52



Colorado River Valley and Part of the Never Summer Range in the Heart
of Rocky Mountain National Park. View from the Trail Ridge Highway.

INTRODUCTION

The first faint stirrings of a concept which still supports the National Park Service naturalist program idea began in Switzerland just before the first world war. There, Dr. C. M. Goethe, an American traveling in Europe, met groups of Swiss children engaging in outdoor excursions and nature study under competent leadership. The avowed purpose of this nation-wide program he discovered was to combat the divergences of language, religion, and racial background so common in that conglomerate little country. Due to the growing nationalism and militarism of neighboring nations it was felt necessary to find a common meeting ground for the young people of Switzerland. This internal feeling for unity finally resolved into a recreational plan, based on nature study, which Dr. Goethe first encountered there in his travels. This plan served to bind the various interests together in a common purpose and a common experience and helped to develop the pride and patriotism of country so necessary to Switzerland's very existence. Similar projects were occurring in Norway, Denmark, and Germany.

Dr. Goethe brought his new found ideas back to America and soon financed a nature guiding program at Lake Tahoe, California. Here personnel of the National Park Service, then harried by powerful commercial groups interested in developing Yosemite National Park for their personal benefit, gratefully grasped the idea. The naturalist program then originally started as a means of deterring these destroyers of the natural scene and providing a more suitable and fundamental means for public participation in National Park enjoyment.

In the following 20 years the naturalist services suffered the expected growing pains of expansion and development of nature instruction techniques in the various Parks. The emphasis always being on seeking new and better ways of bringing nature to more and more of America's mighty migrants, the vacationer. The second world war accelerated awakening and healthy signs of return to the original purposes of nature instruction, first seen in Europe. Nowadays a new stress is being placed on presenting the problems of American land use and conservation. More than the individual is considered; moral and spiritual values are woven into the pattern of naturalist programs to provide stepping stones of appreciation for the country we inhabit. This noteworthy attunement to the times by Park Service naturalists is important to our future national spirit and unity. Now that this recognition is present the future demands good coordination and application of these principles.

Knowledge and fundamental concepts developed by the few are of little value unless put in an easily understood form and transmitted to the populace. The illustrated lecture is but one of the many tools used by professional naturalists in their now very comprehensive work. Since it is a potent instrument for conveying the conservation idea and Park understanding, it was felt that a study of the lecture program in a representative area such as Rocky Mountain National Park, would be of value. The benefits would be realized in developing more concrete means of evaluating the lecture services and therefore indicating paths by which they might be raised to a desirable "high level."



Halletts Peak and Dream Lake. A half hour
hike from the Bear Lake Parking area in R.M.N.P.

THE PURPOSES

These may be divided into two general categories. The direct purposes being those immediate objectives; and the indirect purposes are those more long range and ultimate goals, which it is hoped will be assisted by this study.

Direct Purposes:

1. To determine the visitor desire for lectures in relation to other portions of the naturalist program.
2. To ascertain if there is a universal demand by visitors for particular lecture subjects; and if so, what are those subjects.
3. To discover a few personal aspects of Park visitors which might have a bearing on the lecture services.
4. To gauge the reactions to, and the effectiveness of, some typical Park lectures as given in 1948.
5. To propose a basic series of lectures which would meet lecture obligations.
6. To provide a possible sampling method for use on smaller scale, in comparing and testing visitor demands and reactions, from year to year.

Indirect Purposes:

1. To suggest that lectures point the way to moral and spiritual values obtainable in the Park. The perfection peak possibly is to instill these feelings within an audience.
2. To suggest that lectures can inculcate the visitor with the principles of conservation and land use currently recognized in the United States. This would include the philosophies and relationships of the Park Service, Forest Service, and similar agencies.
3. To indicate that improvement of quality, but not necessarily of quantity of lectures is highly desirable.
4. To provide an unofficial extension service for the national park idea, by informing and inspiring unofficial ambassadors of good will from all parts of the country.
5. To provide temporary and permanent naturalists new to the Park, an "orientation fountain" from which to drink.

6. To help build good American citizens.

THE METHOD

Probably the most difficult part of this study was in selecting a means of obtaining a representative and usable sample of the lecture service. The personal interrogation method, in which large numbers of lecture participants and other visitors are intensively interviewed and their opinions recorded, is admittedly one of better systems. The recent failure of certain well developed systems of polling, however, places some question even on this method. This study disclaims all resemblance to a Gallup or Roper type sampling technique.

The amount of time available was a large determining factor for the questionnaire system used. It was decided to obtain a representative sample from approximately 20 percent of the audiences attending programs at Moraine Park Museum throughout the summer. This would require contacting not less than 1,000 individuals. Since the great majority of visitors are in the Park from June 15th to September 1st of each year an attempt was made to space the sampling evenly during the summer. Of the lecture sites in the Park, including campgrounds, hotels, and ranches, the museum is most centrally located, well attended, and suitable for conducting a questionnaire type poll.

The questions to be asked and the way in which they are worded is of utmost importance in this kind of study method. Upon examining the questionnaire (see appended form A) it may appear that there are too many questions; that is, more than a vacationer would

wish to carefully answer. However, most of the questions may be answered by simple numbers, checks, or a few words and were therefore felt to be practical as well as fairly comprehensive for the purpose. One sheet takes about 5 minutes to fill out completely.

The 1948 season lecture program, as well as other parts of the naturalist activities, was conducted by three temporary ranger-naturalists and one permanent Park naturalist. A glance at the weekly programs (see appended forms marked D) for the summer will show the great variety of the program, both in subject matter and location of the lectures. Some of the kodachrome talks were given different titlings from time to time; the content remaining essentially the same. The travel distances involved, auto and equipment limitations, and the number of hostelries requesting this service are all juxtaposed to form a somewhat complex lecture program. It keeps the staff in motion physically as well as mentally during the summer. There is a happy cooperative condition in this Park, which considerably augments the program. This is lecture services by many other talented members of the Park Service ranger force. The private kodachrome collections of rangers and naturalists greatly implements the extension of Park lecturing and understanding.

The selection of questionnaire "sampling nights" had to be dove-tailed with the rather inconsistent scheduling of lecture subjects at Moraine Museum. Thus the samples could not be spaced as regularly as was desired, but still a fair representation of subject matter was obtained. Nine of the thirteen lecture samples

were given by myself, ~~with~~ ^{file} the others (geologic, early history, and color movie subjects) ^{were} given by other members of the naturalist staff. In order to obtain correct spacing of lectures, the two geologic lectures were given at places other than the museum. These were useful for other comparison purposes however. This also provided a check on the variation of answers in the questionnaires which might occur with different speakers.

After the questionnaires for each lecture were collected they were sorted to discard those not satisfactorily completed. Then the information from each lecture was assembled on a tabulation form, which was necessary to keep the results in an orderly manner. See appended form B.

All of the information from the study (except comments) was then compiled on the too lengthy compilation sheet of naturalist lecture study. See appended form C. The round figure of 1,000 questionnaires here proved to be very satisfactory. By insertion of a decimal point in the proper place in any of the totals the percentage figures are quickly obtained. The compilation sheet is also handy for any interested persons who have the temerity and patience to make studies or comparisons of their own in the future.

The Sampling Technique

An effort was made on "questionnaire nights" to open the museum early so that the audience could assemble in a leisurely fashion. Several acquaintances were selected and briefed on passing out questionnaires and pencils rapidly. About 5 minutes before the scheduled lecture time, the questionnaires were handed

out to all persons over 18 years of age. This age limit was set because it was thought a more mature and "contributing" questionnaire could be obtained. That this was a fallacy will be explained in the results section of this paper. I then explained carefully the purpose of the questionnaires, that they were not obligatory and that ONLY the first 9 questions were to be answered then. In addition it was emphasized that an individual fill out only one questionnaire for the season. Those who attended lectures regularly during their Park visit were to complete one form on their first "questionnaire night." Questions were invited and explanations offered to assist in proper completion of the forms. Ten minutes were allowed before starting the evening program. Immediately after the lecture a request was made to fill out the last question (reactions) and if desired, make any pertinent comments. The questionnaires were collected as the audience left the building.

THE RESULTS

The Sampling Technique

It was found that the success of this method of sampling hinged directly on the rapid distribution of questionnaires and pencils before the lecture, and on the explanation and directions given for their completion. On two occasions, when the process was somewhat hurried, the proportion of unsatisfactory or incompleted forms increased noticeably. Generally all the audiences were interested and pleased to assist in the survey and many individuals lingered after programs to discuss their beliefs and feelings. This attitude

prevailed also at a hotel, a ranch, and the Y.M.C.A. Conference Camp lectures where the surveys were conducted for experimental and comparison purposes. More ~~of~~ samples in the various lecture localities would have been valuable, and would have been conducted except for a feeling that they might antagonize lodge owners and their visitors. Because of poor lighting facilities and unpredictable weather conditions, the distribution of forms at outdoor campgrounds or amphitheaters was not considered advisable.

A total of 1,544 people attended the 13 lectures upon which this study is based. Of these, 257 were children under 18 years of age who did not fill out forms. From the remaining 1,287 individuals a final number of 1,000 "accurately" completed questionnaires was obtained. The excess 287 were either persons who had filled out forms at previous lectures, or did such a poor job on the forms that many of their answers were not usable; therefore these questionnaires were discarded for the final compilation of results. There were occasional errors or oversights on some of the incorporated questionnaires; if not more than one question was neglected per questionnaire their results were included. This will account for some of the totals on the compilation sheet not always reaching the full 1,000 mark. This of course means that any percentages given are not absolutely accurate; rather they are close approximations. Even so, they are sufficient for the results desired. It is interesting to note that only 11 percent of the total questionnaires received were discarded because of incompleteness; this is a low figure when we consider the length of the

form and the expected impatience of vacationers for this sort of study.

Naturalist Activity Preferences

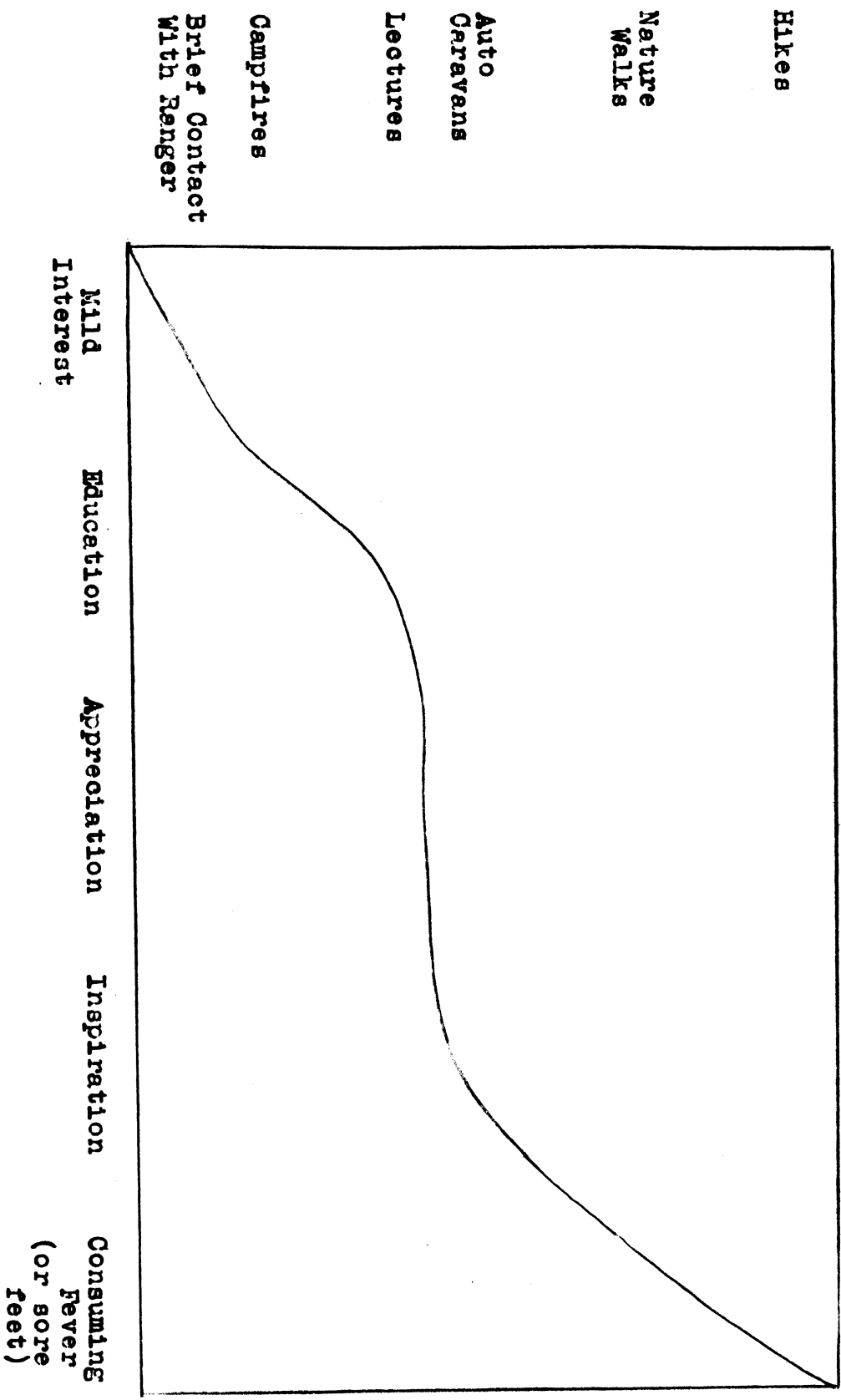
In order to determine visitor desire for lectures in relation to other portions of the naturalist program question no. 1 was included. The following types of naturalist activities, commonly conducted in the Park, were listed and a request made to indicate choices in order of preference: Guided nature field trips and hikes; illustrated naturalist talks; campfire programs with singing, stories, and naturalist talk; and auto caravan trips with scenic and explanatory stops.

50 percent indicated lectures as a first choice; 24 percent gave field trips and hikes as a first choice; 16 percent listed campfires first; and 13 percent were most enthusiastic about auto caravans. On examining the 1st, 2nd, 3rd, and 4th choice totals for each type of activity on the compilation sheet, it will be seen ~~that~~ there is an excellent confirming progression of totals, either increasing or decreasing, which gives added weight to the results indicated. Of course, these results are prejudiced by the fact that this question was asked only of lecture audiences, and it is to be expected that their pleasure would be predominately for lecture type activity. However, the high percentage preferring lectures probably gives a good indication of the relative preferences of the average Park visitor. Lectures were the most frequent and available part of the program given during the summer.

Lecture Subject Interests

To ascertain if there was a demand for particular lecture

Naturalist Program Interest-Fever Chart



This hypothetical chart illustrates the opportunities that are present in the Naturalist activities to develop interests of park visitors.



Looking Down on Chasma Lake on the Long's Peak Climb.
This inspirational type activity can be well presented
in the lecture program.



Stormy Weather on the Narrows, nearly 14,000 feet
above sea level. Long's Peak Climb.

Ages represented in this picture are 19, 35, and 52.

subjects, question no. 2 listed ten typical lectures of wide variety, and individuals were requested to indicate only their first four choices in order of their interests. The results of 1st choices only are as follows:

1. Animal Life - 25 percent
2. Park Acquaintance via Auto and Hiking Trips - 21 percent
3. Formation of the Mountains and Glacier Stories - 16 percent
4. Flowers - 11 percent
5. The remaining 6 lecture subjects each had totals never exceeding 7 percent.

To gain a more accurate picture of the major preferences of visitors for lecture subjects, it was considered best to list those subjects which had been chosen consistently towards the top of the list; that is as one of the first four choices throughout the study. The results were as follows:

	Number of individuals listing subjects in their first 4 choices:
1. Animal Life and Wildlife Management . . . . .	.654
2. Formation of the Mountains and Glacier Stories. . . . .	.539
3. Park Acquaintance via Auto and Hiking Trips . . . . .	.530
4. Less Accessible Regions of the Park . . . . .	.403
5. Ranger Activities . . . . .	.395
6. Flowers . . . . .	.346
7. Indian and Pioneer Stories of the Region. . . . .	.343
8. The Forest Story. . . . .	.312
9. Birds . . . . .	.297
10. The Alpine Tundra Country . . . . .	.172

The first three subjects listed correlate very well with the first choices only tabulations. The last named subject, the Alpine Tundra Country, probably drops so far down in preference because of unfamiliarity with the word "tundra." Actually the tundra country of the Park, because of its accessibility by highway and its unusual character is one of the outstanding features of the Park.

It is also true that any one of these subjects, if properly developed and presented by a lecturer, would prove of sufficient interest to hold the attention of any audience. This question is important because it indicates that the animal life, geology, and orientation aspects are probably fundamental interests of visitors to these western mountain areas. It should be emphasized that this question was answered before the lectures given and therefore, was not influenced by the lecturer or subject matter. Conversations with participants after programs proved this selection of subjects to be the most "difficult" part of the questionnaire. Some indicated that they were equally interested in all subjects. Undoubtedly if the subject matter had been worded differently, there would have occurred a different arrangement or order of at least the last seven lectures listed.

An even more pertinent query is answered when an attempt was made to correlate attendance and subject matter offered on any of the program evenings. No correlation was found, and the people came to the programs just because there is a program available and not because of any universal interest in one special subject. The one exception to this is the "feature nights" at Moraine Park Museum, when "outside" Sunday night speakers were brought in and given a heavy (black type) billing on the weekly printed program. It would be interesting to bill any one of the usual weekly lectures in this manner and observe any attendance differentiations. The weekend lectures are always more heavily attended (sometimes up to 700 or 800 people), probably due to the heavy influx of local

visitors from the nearby valley towns. The Sunday night programs also offer a greater variety of subjects sometimes not duplicated during the summer. This draws in the numerous summer residents to whom the regular routine is "old stuff." It should be mentioned here that from three years observation of these special programs, it is my opinion that a large percentage of these programs fall far short of a desirable level. Usually the kodachromes shown are above average, but the speakers' organization and ability to deliver and put his subject across is below average. Also a major point, the expansion of Park philosophy and understanding to these largest of weekly audiences, is often missing entirely and the lecture sinks to a mere showing of color slides. This viewpoint is important; because to many people, this lecture may be their sole contact with the naturalist program.

Naturalist Program Participation

This question (no. 3) is admittedly weak because of the interpretation left to the visitor, of the words occasional and frequent. Usually they were selected by the following basis: frequent, meaning attending most of the naturalist activities (which many did); and occasional, meaning participation in not more than one or two activities offered during any week. 58 percent indicated they participated occasionally in the naturalist services, and 41 percent listed a frequent attendance or following of the activities.

Number of National Parks Visited

This question (no. 4) was asked to assist in formulating the kind of material to be presented in the lecture program. Since

41 percent of the visitors participated frequently in naturalist activities, and if a large proportion of these had visited a number of other National Parks; then it follows, that in those Parks they also participated frequently and have already had a pretty good dosage of Park philosophy. If this were true, then a strictly local application of Park understanding and presentation might be better appreciated. 40 percent indicated that they had visited 5 or more National Parks; 12 percent had visited 4; 14 percent had visited 3; 15 percent had visited 2; and 17 percent had visited only Rocky Mountain National Park. None of the percentages are strong enough to make a statement of practical application for the lecture program. Although the figure 40 percent is a good indication that there are many in an audience who already have an understanding of our National Park system.

First Visit to the Park

This question (no. 5) was included to determine the percent of audiences who had visited in and already have some familiarity with the Park. From conversation and acquaintance with audience members, most of those who had been in the area before indicated they had partaken of naturalist offerings. On the questionnaire 37 percent said this was their first visit to the Park, while 62 percent indicated they had been in the region before.

Length of Stay in the Park Area

The average length of stay in the Park for visitors who attend the lectures, is one the more important questions (no. 6) to be considered in setting up a lecture program. It has a direct influence

on the frequency of repeating the same lecture at the same place. The question, as worded on the form, was found to be slightly confusing to some. They had a tendency to check the summer or permanent resident column when they had indicated previously, they were staying in the Park but a few days. Possibly the word resident was the bad terminology for the purpose intended. The large bulk of lecture participants were staying in the vicinity not more than one or two weeks; 38 percent indicated they spent one week or less in the Park and 35 percent listed about two weeks as their length of stay. Other figures were: 8 percent stayed 3 weeks; 3 percent stayed 4 weeks; 1 percent stayed 5 weeks; and 8 percent stayed 6 weeks or more in which case they were considered as summer residents.

Occupation or Profession

Question no. 7 on the questionnaire was for the purpose of obtaining the educational or "receptive" level of audiences. 43 percent of those attending lectures were either teachers, college students, or professional people with at least two years of specialized training beyond high school. A total of 26 percent were teachers and college students; 17 percent were other "high" level professional persons; 28 percent were housewives. No correlations could be found between occupation and type of lectures attended or subject preferences.

Residence

The one outstanding feature in the results of question no. 8, was the very small number of Colorado residents utilizing the naturalist program. Only 6 percent of audiences indicated they were

state residents. This figure probably rises on Sunday night lectures when week-end valley visitors are in the vicinity. Only one lecture sample was obtained from a weekend audience, and this was on a Saturday night. This lecture showed no change in percent of Colorado people present compared to other weekly programs. The main portion of all audiences were residents of states east of the Rocky Mountains. This agrees with total visitor attendance recorded at Park entrances. Western people made up less than 5 percent of total participants.

Age Groups

The children under 18 years of age have had no special consideration in the formulation of the lecture program. That possibly they should have, is emphasized when tabulations show 26 percent of lecture audiences are made up of this age group. Another group to which some thought might be given, range in age from 18 to 25 years; inasmuch as only 13 percent of audiences were made up of this impressionable group. Of course there is large competition in the region for this age group in the form of dances, drinking, horse-back riding, and other moonlight recreation. 16 percent of audiences were in the age group, 26-35; 31 percent (largest percentage) in the 36-45 age group; 24 percent in the 46-55 age group; and 12 percent were over 55 years of age. The age groups designated on the questionnaire, incidently, were selected to help people hesitate as little as possible in checking their correct ages. A forty year old person might pause before checking an age group of 40-49; whereas this same person will indicate the 36-45 age group in a hurry.

The significant point of the age group question is that lectures are attended by a very heterogeneous age group which has a slight predominance of middle aged people.

Lecture Reaction

This question (no. 10) was broken down into two sections of inquiry. One to obtain reaction to the general character of the program; too technical, too simplified, or satisfactory. The other is an attempt to discover the audience feeling of the qualities of the different lectures presented; educational, inspirational, or entertaining.

It is of importance to observe that only 1/2 percent of the audiences felt that lectures were too technical, and that 4 percent considered the programs too simplified. These figures should actually carry more weight in lecture preparation than the more complementary 89 percent of audiences that considered the lectures to be satisfactory. How these figures can be utilized will be discussed in the conclusions portion of this paper.

The quality determination section was gratifying; in that, at least the entertainment percentage was lower than the educational figure. 72 percent of the people felt that the lectures were educational; 65 percent included entertainment as one of their chief impressions; while 29 percent indicated that they were inspired by the programs.

Commentaries

After sorting through and tabulating the results of 10,000

questions (the total number compiled and evaluated in this study), the special comments at the bottom of the sheet, provided voluntarily by lecture participants, proved to be of special interest. 25 percent of the people felt strongly enough, one way or another, to remain after programs and write in compliments, criticisms, or suggestions. Because the programs are free, and because there is a very real effort made by lecturers to provide a useful service, the commentaries were chiefly complimentary. In this study, however, these should be minimized, and the more "piercing" and sometimes "uncomfortable" comments considered carefully. Although it can be blithely said, there are always gripers in any audience and that you can't please everyone, some of the criticisms are fully justified and every effort should be made to eliminate these reactions. The "suggestions", while not always the most pleasant to read, were most helpful in self evaluation. These, if properly accepted, can do much to lift the fog of joy and appreciation which sometimes settles around a naturalist in his duties; while the disgruntled persons remain silent or march, muttering, from the lecture room.

Because they make good reading the full list of comments is included. There are a few comments not directly concerned with the naturalist program, but these are included for the benefit of other possible readers not connected with this study. Material extracted from questionnaires follows.

Comments

*Indicates criticisms or suggestions for improvement.

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
DOWN THE DIVIDE (Attend. 110)		
*1. Talk was too short.	18-25	Student
*2. More all day hikes.	36-45	Housewife
*3. More all day hikes. More evening hikes.	18-25	Student
*4. I prefer movies rather than stills.	36-45	Housewife
*5. Why not have a program on identification of peaks and other physical characteristics?	16	Student
*6. How about a lecture on the names of peaks and how to identify them?	26-35	Teacher
7. Have found <u>all</u> trips and lectures extremely enjoyable. Have enjoyed all subjects and found it difficult to have any preference.	26-35	Chemist
8. Your general program of conducted hikes and lectures aids greatly in appreciation of the park.	46-55	Silversmith
9. I thoroughly enjoyed the talk.	36-45	Insurance Adjuster
10. Keep up the good work.	Over 55	Clerk
11. Darned good.	36-45	Elec. Engineer
12. You sold me!	26-35	Radio Singer
13. The variety of topics was most interesting and some of the kodachromes were a fine lesson in photography.	26-35	Chemical Engineer
14. Very good. Have enjoyed all the programs I have attended.	36-45	Soil Conservationist.
15. Your pictures are wonderful.	36-45	Commercial Artist

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
16. Hikes are excellent.	18-25	Teacher
17. It was swell!	26-35	Secretary - Housewife
18. Very fine. We like rangers who enunciate clearly and have a keen sense of humor.	46-55	Housewife
19. As a newcomer the auto caravan, hikes, and talks have made my visit 100 percent more interesting -- thank you.	46-55	Teacher and Housewife
20. Very interesting, as we had just made the trip 2 days previously.	36-45	Housewife
21. I think the talk and pictures <u>very</u> good.	46-55	Housewife
22. The park programs are an educational privilege and the main reason for our coming here.	36-45	Part time art teacher
23. It was just wonderful.	18-25	Student
24. I think the park is giving the public a fine service through these talks and other programs.	36-45	Housewife
25. We think Gilligan an excellent Naturalist Guide on trips. Would like an all day hike to Chasm Lake and night caravans to see animals.	26-35	Housewife
26. I consider the services of the Naturalists most valuable and have thoroughly enjoyed them.	26-35	Secretary
27. Excellent.	Over 55	Housewife
28. Have enjoyed the Park services very much.	26-35	Housewife

PLANT LIFE OF THE ROCKIES (Attend. 83)

*1. I feel that it is always worthwhile to throw in a bit more of the rare or unusual species to lead those who have mastered the commoner species on to a broader knowledge.	26-35	Chemist
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<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*2. I think your hikes are too fast for pleasure. There isn't time enough for "seeing," just time for "looking."	26-35	Housewife
*3. I realize the necessity for the "popular" type of lecture. Personally, I would like them to be a little more technical.	36-45	Secretary
*4. Magnification of flowers gives incorrect comparison to actual size. Scale on slide for comparison.	36-45	U. S. Navy
5. I have my botany class here for a week. We could, of course, stand some more technical explanations, but tonight's lecture was educational and very worthwhile. We have found all but one of the plants shown.	26-35	Biology Professor
6. Very good.	36-45	G. M. C.
7. The programs generally are excellent.	46-55	Teacher
8. Excellent.	36-45	Housewife
9. Dimout prevents paragraphs of detail. Programs good and well presented.	36-45	Accountant
10. Very good.	18-25	Photographer
11. Narrator was very good.	26-35	Student
DWELLERS OF THE TUNDRA. (Attend. 80)		
*1. The talk was very interestingly given but answers to questions should have followed program.	18-25	Bookkeeper Secretary
2. A very entertaining talk--relaxing after 6 miles of hiking. Keep such good Rangers as you have now.	36-45	Housewife
3. Enjoyed very lively speaker tonight. Kodachrome adds actual color.	26-35	Salesman

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
4. Keen!	26-35	Housewife
5. Very good.	Over 55	Clergyman - Secretary
6. Thank you for a splendid program.	36-45	Housewife
7. Much more interesting because of delightful humor of narrator.	46-55	Clergyman
8. I appreciate the variety offered.	18-25	Technical (chemical) Librarian
FOREST STORY (Attend. 130)		
*1. We thoroughly enjoy <u>all</u> that you fellows do. It's a wonderful contribution! Two years ago "Climbing Long's Peak" by some outsider - movie - was the big show of the summer. Can it be shown again? In 1938 a children's program with certificates for learning so many mountains, flowers, etc., was most commendable. The etchings (I believe) on these certificates from Uncle Sam were works of art.	36-45	Teacher
*2. Give out the weeks program at the entrance check stations.	36-45	Lawyer
*3. It would be highly desirable to have a guided hike up Longs Peak.	36-45	Mech. Engineer
*4. I would like to have a guided hike up Longs Peak.	26-35	Housewife
*5. Last year a lecture at Glacier Basin was postponed and last night (our first night here this year) the lecture was postponed again and we were very disappointed.	36-45	Teacher
*6. We think that more talks or at least those scheduled should be given at the Glacier Basin camping grounds.	46-55	Teacher
*7. More conducted hikes would be agreeable.	46-55	Telephone Co. Supvr.

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*8. Perhaps emphasise even more the fact that our Nat. Parks are set aside as preserves of what we enjoy in nature and wish to set aside <u>permanently</u> , to be kept from American exploitation in order that not only <u>we</u> , but generations indefinitely in the future may enjoy them. Emphasise also that with the hundreds of thousands of visitors each year, each must keep in mind that he must cooperate in order to make the park last.	26-35	Science Teacher - High School
*9. I think Estes has as fine a naturalist program as I have found anywhere and I should like to compliment the rangers on the very excellent job they are doing to bring home to the visiting public the value of our untouched wilderness as a permanent heritage for all generations. I belong to the Sierra Club and am acquainted with how the parks have to fight to maintain themselves and I suggest that at every single talk some comments are made during the talk or afterwards on some of the park problems created by lumbering and grazing groups and dams, etc. Suggest they join the Nat'l Park organization. If you mention specific hills in Congress that would help bring home the dangers to the park perhaps and they might even write some letters to their senators, Congressmen, etc. Somehow we must get public opinion behind us to match the strength of special interest pressure groups. The programs are swell and interesting to all age groups. Best of luck!	18-25	Housewife
10. The Rangers are some real swell guys!	18-25	Student
11. It's much too hard to choose favorites since each activity offered by the national parks to us has been invaluable in educational information as well as an inspiration for further studying and hiking. We quite frankly compare the qualities of the talks and speakers at the various parks. The speaker tonight could not be better. The subject matter was good also. Thank you.	18-25	Housewife and Student

<u>Lectures</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
12. Have spent one week of our two and, so far, have gratefully participated in <u>all</u> evening and many day activities offered us. <u>All</u> ranger-naturalists have been uniformly kind, painlessly instructive, and always entertaining. Thank you.	46-55	Housewife
13. It was wonderful.	36-45	Housewife
14. Very interesting.	26-35	Housewife
15. Swell!	26-35	Office Mgr.
16. Interesting to all age levels.	36-45	Housewife
17. National Park Service---wonderful!	46-55	Livestock Promotion Mgr., Packing Industry.
18. I feel very grateful for the Park Service program, here as in other Parks I have visited, and for the excellence of the material presented.	Over 55	Social Worker
19. The friendliness of the Rangers has greatly impressed me.	36-45	Printer
20. We have enjoyed the various services and have learned a great many interesting facts about the Park--wild life, geology, etc.	46-55	Homemaker
21. Your programs are all excellent. Thanks.	Over 55	Consignee, Phillips Petro Co.
22. I've been on several trips and attended several lectures. You folks are doing a fine job.	46-55	University Agri. Extension Education
23. Park Service has done a great deal toward enjoyment of vacation.	26-35	X-ray Technician
24. The program is very well planned to appeal to the greatest number of visitors--well-rounded.	26-35	Teacher
25. Good variety of programs offered.	26-35	Teacher

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
26. I enjoyed it very much.	46-55	Housewife
27. Color in pictures good.	46-55	Housewife
GEOLOGIC STORY OF R.M.N.P (Attend. 90)		
*1. Not so much "you see." Slow down on technical explanations. Good talk, all in all--Thank you.	26-35	Student
*2. Speed <u>terrific!</u>	36-45	Housewife
*3. Raise screen so pictures can be seen.	26-35	Engineer
*4. The audience could see the slides better if they were thrown a foot higher on the screen--above the heads. Enjoyed the lecture very much.	36-45	Secretary and Teacher
*5. You speak too fast. If you start technically do not present only one theory in all; your introduction was too long. Why present so sketchy an outline at all?	18-25	Student
*6. Too elementary. Oversimplified. Poorly organized. Need better development of causal factors.	26-35	Teacher
*7. Campfire sings would be improved by having the leader show pep and personality with less attempt at levity. Ranger talks are very interestingly given.	26-35	Homemaker and Substitute Teacher
*8. I believe the early remarks are somewhat unnecessary; the origin of life could be cut somewhat short and more time given to description of rock layers, type of rock, etc.	36-45	Aircraft Mfg.
*9. Such excessive caution regarding religion served to emphasize an unnecessary conflict between science and religion.	26-35	Instructor - State U. of Iowa
*10. Enjoyed the talk. Suggest that the talks be better advertised. We almost missed hearing about it. Thanks a lot.	46-55	Radio Communications Supvr.

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
11. I was very interested. He's a good man.	36-45	Homemaker
12. I was so very favorably impressed. A swell job!	36-45	Housewife
13. Excellent talk.	26-35	Salesman
FOREST STORY (Attend. 160)		
*1. It would be nice to have the programs at more different places such as Aspenglen Camp Ground, Glen Haven, etc.	26-35	Housewife
*2. Two years ago there was an illustrated lecture by a ranger at Glen Haven but there are none there this year. I would like to see such lectures at more places, perhaps once or twice a week.	26-35	Ministry
*3. I think it would be to our interest if we sang "My Country Tis of Thee", or "America, The Beautiful", or "Rock of Ages."	Over 55	Presbyterian Minister
*4. Such federal services should be expanded. We need more national parks, socially owned and protected from exploiters, advertisers, etc. More power to you.	36-45	Sociologist
*5. There should be more ranger naturalists in the field.	26-35	Student
*6. I believe you would please a great number of tourists by inaugurating community singing at the beginning of your naturalist talks.	46-55	Housewife
*7. The evening campfires with singing and stories such as those held at Glacier Basin a few years ago were one of the most entertaining activities offered. Let us have them again. Those logs scattered around the campfire were fine business. The present more civilized amphitheatres don't give the same kick.	26-35	Chemist

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*8. More all day hikes and glacier slides!	16	School boy
*9. Improve Latin pronunciation.	36-45	Auditor
*10. Keep our Parks free for us, the common people, and keep private promoters out. Many of us appreciate the free camp sites and cannot afford \$8 to \$12 a night for cabins.	36-45	Engineering Work
*11. I would like to have more all day hikes like the one over Flat top, Hallet's Peak, and Andrews Glacier.	46-55	Education and Research, Okla. A.+M.
*12. Suggest that the grade of the highway at Entrance stations be built so that a car will stand still without breaks while being checked in.	Over 55	Civil Engr.
*13. While not concerned with this program I would suggest one lane at the entrance gate of Rocky Mt. Park be reserved for cars entering which have already paid the fee. When a ranger is available he could operate in that lane and prevent cars from stopping unnecessarily.	Over 55	Civil Service Employee - Retired
14. Personality of speaker was an asset to the talk.	36-45	Housewife and teacher
15. Highly entertaining and informative. Worth any trouble to attend!	26-35	Texan
16. Excellent Program.	36-45	School Principal
17. We appreciate the fine educational program arranged for park visitors. The forest talk tonight was especially interesting.	36-45	Housewife
18. A very excellent program--courteous, patient rangers. This service should be extended.	26-35	College Professor
19. I feel your staff has done a splendid job in these illustrated talks. They have enriched our stay here beyond measure. They have given us a far	46-55	Minister

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
greater appreciation of the Park than weeks of camping without them. More power to you and many thanks for a splendid job.	(Continuing No. 19)	
20. Enjoyed very much!	46-55	Methodist Minister
21. Ranger's sense of humor is appreciated.	46-55	Housewife
22. These illustrated talks are a highlight in our visit to this Park. They are excellent.	46-55	Housewife
23. I am glad to note the new life, zest, and spirit evident in the Park Programs this year over that of other years.	46-55	Housewife
24. The talk tonight was up to the general level of talks--excellent!	46-55	Housekeeper and mother
25. I am enjoying the Park Services very much. In fact, they are about the most enjoyable return from my Fed. Inc. tax that I know of.	36-45	Engineer
26. Wonderful lectures--here every night.	36-45	Accountant
27. I believe that you have fine programs.	18-25	Student
28. Splendid talk.	26-35	Housewife
29. Very good.	26-35	Teacher
30. You guys are a bunch of good Joes.	26-35	Wash, iron, bake, and get ready to come back up here.
31. Quite interesting.	Under 18	None (school)
32. O.K.	36-45	Electrician
33. Excellent.	Over 55	Retired
34. I think the programs and activities of the Rangers are most interesting, entertaining to visitors who participate, and educational to anyone caring to learn.	36-45	Homemaker

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
35. I like all the programs and I think they are very good.	36-45	Homemaker
36. Excellent plus!	46-55	Elect. Engineer
37. Good.	Over 55	Entomologist
FLOWERS OF ROCKY MOUNTAIN NATIONAL PARK (Attend. 125)		
*1. I have been greatly pleased and impressed with the Park's program to become acquainted with it. The Naturalists have all been very kindly interested in helping us to do and see what we want. Whatever pertains to the Park in which I am is more interesting to hear about at that time than about another park. I am especially pleased with the cleanliness of the Park and its museum.	46-55	Housewife
*2. Good slides. Could have been more comprehensive, however.	26-35	Lawyer
*3. Glad to see so many activities for all listed on the weekly programs.	36-45	Teacher
*4. Make your " Peaks You Can See From Here" as a double postal card folded on the short side, have it printed from half tone instead of photographic paper, sell for ten cents.	36-45	Physician
*5. I wish that you would have your talks outdoors.	18-25	Student
*6. More outdoor programs in amphitheatre.	46-55	Housewife
*7. Would like a few songs at campfire like we had 7 years ago.	36-45	Housewife
8. Quiz after slides interesting and fun.	18-25	College student
9. A very interesting talk made out of an ordinary subject.	36-45	Mgr. Truck Line

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
10. Better than average.	36-45	Photographer
11. Beautiful slides, and well presented by Mr. Gilligan.	46-55	Salesman
12. Fine. Thank you. My first and it was O.K.	26-35	Homemaker
13. Would like more!	26-35	College Instructor
14. I like the courteous consideration of guests in this National Park.	36-45	Teacher
15. Delightful and really instructive. Just what I wanted to hear.	46-55	Teacher
16. I think the Park Service is wonderfully informative, courteous, and helpful.	46-55	Homemaker
17. We think Mr. Gilligan very good, both in his talks and on hikes.	46-55	Housewife
18. All very fine.	Over 55	Binematographer
19. Excellent in every way.	36-45	Dept. Store Mgr.
20. Enjoy the programs very much.	36-45	Housewife
21. Enjoy the programs very much.	36-45	Banker
22. Especially like guided hikes and appreciate the museum services.	36-45	Homemaker
23. Wonderful!	36-45	Farmer
24. Very good and interesting to one not well acquainted with Botany.	46-55	Chemist
EARLY HISTORY AND PICTURES OF R.M.N.P. (Attend. 180)		
*1. Good beginning. A little slow.	36-45	Homemaker
*2. Introduction a little long.	Over 55	Teacher
*3. It would appeal to children. Too bad there weren't children in the audience.	36-45	Housewife

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*4. Camp grounds need more tables.	26-35	Teacher
*5. Camp grounds need more tables.	19-25	School
6. The presentation of the slides to-night was greatly appreciated. Have enjoyed the humor that went with it. Thank you.	46-55	Physician and Surgeon
7. Thank you for a very enjoyable and excellent presentation.	36-45	Social Worker
8. We have enjoyed every program we have attended here and consider them very educational and entertaining.	Over 55	Housewife
9. Enjoy the evening talks very much.	26-35	Housewife
10. Many thanks for a very pleasant evening.	36-45	Housewife
*11. Give talk on living techniques employed by first trappers and discoverers of this area.	46-55	Engineer
12. Very good.	36-45	Barber
13. Most interesting talk I have ever heard.	Under 18	School girl
14. Look forward with interest to further programs.	Over 55	Music Teacher
TRAIL TRIPS. (Attend. 91)		
*1. To prevent neck-stretching, please keep pictures at top of screen. Thank you.	Under 18	School boy
*2. Believe more diversified programs with more programs at all points within the park might be enjoyed by more visitors if the number of Ranger Naturalists could be increased.	46-55	Telephone Industry
*3. We don't like to hear the weekly program read every night. Anyone can pick up a program at the desk to read it himself.	26-35	Housewife

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*4. Start program on time.	26-35	Power Plant Engineer
*5. Start promptly.	36-45	Teaching School
6. One half day and whole day hikes very fine and help acquaint the travelar with the picturesque sites of the park. On the whole, a fine program.	18-25	U. of Michigan Student
7. Your weekly programs are wonderful.	36-45	Jeweler
8. The Ranger talks give a maximum of information in a minimum time.	36-45	Librarian
9. We enjoyed the lecture very much.	46-55	Farmer
10. An excellent talk and wonderful pictures.	Over 55	Housewife
11. Liked this lecture and lecturer most of all! Thanks!	36-45	Housewife
12. Enjoyed it very much.	36-45	Editor weekly newspaper
13. Liked it fine.	26-35	Housewife - Gift Shop
14. Very interesting.	36-45	Grain elevator operator
FOREST STORY (Attend. 115)		
*1. Good balance--both educational and entertaining. 60 minutes is just about 20 minutes too long. Suggest all Rangers read "Plain Talk" book by Bloesch. Associated Press has hired Bloesch as consultant, so no Ranger need feel hurt by this suggestion. [Plain Talk " is by Flesch]	46-55	Editor
*2. I enjoyed the talk on "rocks" last year by the President of Greeley State College and would like to hear it again.	36-45	Housewife
*3. Too much adjusting of focus. Programs have all been splendid.	46-55	Teacher

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*4. General--I would prefer more photographic caravans.	Over 55	Dentist
*5. Would like to see electric lights on the camp grounds of Glacier Basin.	26-35	Farmer
*6. Need electric lights at Glacier Basin Park.	26-35	General Insurance
7. The programs are all <u>very</u> good and our entire family appreciate them.	36-45	Housewife
8. Have visited Estes Park and Rocky Mountain Nat'l annually since 1919.	46-55	Engineer
9. The Park is "sine qui non."	Over 55	Practice of Medicine (M.D.)
10. Very educational, interesting, and satisfactory.	46-55	Salesman
11. All programs have their place.	Over 55	High School Teacher
12. In visiting the national parks we have always found the lectures given by the rangers so they are of great interest and quite informing.	36-45	Housewife
13. I enjoyed it.	18-25	Student
14. Very nice slides--talk excellent.	26-35	Office Work
15. Enjoyed it.	26-35	College Instructor
16. Enjoyed the talk a lot.	36-45	Theatre Mgr. and Owner
COLOR MOVIES OF R.M.N.P. (Attend. 180)		
*1. Very good--just a bit long.	26-35	Farming
*2. Couldn't hear speaker.	46-55	Credit Mgr.
*3. Have guest artist show pictures of other places than this Park, unless of unusual interest.	46-55	Teacher

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*4. I wish there were a way to identify the flowers--particularly the alpine ones--more readily.	46-55	Teacher
*5. I definitely set disgusted listening to several minutes of "The Weeks Program" every time I come to see movies, slides, etc., especially after reading them in the Bulletin.	26-35	Teacher
*6. The only thing we have missed are attractive places for a picnic with cooking facilities--such as Michigan State Park Service provides.	Over 55	Educator
*7. An occasional mass campfire would be enjoyable.	26-35	Teacher
8. Tonight's pictures and talk were excellent--both educational and entertaining. Ranger programs have made our stay in this section very educational and worthwhile.	26-35	Teacher
9. It was a beautiful as well as educational talk. Have enjoyed the Ranger programs very much.	Over 55	Housewife
10. Very enjoyable--educational as well.	26-35	Teacher
11. Very wonderful.	46-55	Telephone Operator (Chief)
12. This was just about perfection!	Over 55	Farmer, Legislator
13. The talk tonight was very excellent and educational. I enjoyed it immensely.	46-55	.....
14. Thought it extremely interesting.	36-45	Office Mgr.
15. I have never enjoyed anyone elses pictures so much. From the standpoint of photography and gaining knowledge I have never enjoyed anything so much.	26-35	Housewife and mother - part time interior decorator
16. Thankful to God and Park Rangers for wonderful entertainment which is enough.	Over 55	Housewife

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
17. The talk gives one the potentiality of the Park and what to look for on trails.	46-55	Hosp. Administrator.
18. Enjoyed very much indeed. Thank you.	Over 55	Dairy Farmer
19. Tonight, animal shots were gems of photography. These will always be able to entertain any audience.	18-25	Student at University
20. Super--includes ranger activities. Wish we could stay longer. Did all trails but L's. Peak and over to Grand Lake.	36-45	Housewife and Chem. Instructor

GEOLOGIC STORY (Attend. 57)

*1. Introduction a little long.	26-35	Librarian
2. Very fine job.	46-55	Insurance Agent
3. Very interesting talk.	18-25	Civil Engineer
4. Very worthwhile.	Over 55	Housewife
5. Completely fascinating.	18-25	Student
6. Very well done!	46-55	Teacher

LIFE OF A RANGER (Attend. 143)

*1. More movies of remote and interesting features of the Park would be interesting.	.....	.....
*2. Too long introduction.	46-55	Faculty, U. of Wisconsin
*3. Tonight's talk was very entertaining. Usually I find them very inspirational and educational though often a little too simplified.	18-25	Student
*4. Speed the slides up. Keep 'em moving!	18-25	Journalist
*5. Long winded. Too much irrelevant chatter.	46-55	Insurance Executor

<u>Lecture</u>	<u>Commentors</u>	
	<u>Age Group</u>	<u>Occupation</u>
*6. Some cottage camps are exorbitant in charges, especially Northrup's Eagle Cliff Cottages--do not even have screens on windows. Chamber of Commerce should do something to protect tourists from them.	46-55	Lawyer
*7. I wish safe water for drinking in the Park was marked--more places for picnics away from camps.	46-55	Mother
*8. Longer hikes might be included if staff were larger. Otherwise excellent.	18-25	Student
9. Tonight's program most excellent one everyone can enjoy.	46-55	.....
10. Enjoyed the talk very much. This Park seems to me to have more adequate programs, than either of the other two I have visited.	26-35	Homemaker
11. You have a wonderful service and I enjoy <u>all</u> of your activities. Keep up the good work.	18-25	University student
12. Very enjoyable.	46-55	Business Management
13. Very well done.	36-45	Tool and Gage Designer
14. Enlightening and enjoyable.	46-55	Registered Nurse
15. I think the program of this Park is much more developed than any other park visited.	36-45	Homemaker
16. Very good.	36-45	Elect. Engineer
17. General program excellent. Talk tonight grand!	46-55	Housewife

The principal importance of the commentary section is not so much the kind of criticism or praise that is received, but that this sampling method has proved successful in obtaining a cross section of useful opinion. There is no intention of pointing out any one lecturer or lecture, nor of over emphasizing any criticisms mentioned. Some of the suggestions are perfectly valid and others are not well taken or justified. They are useful as examples of what reactions may occur for any lecture given, and as indications of what to guard against in planning a program. They are most helpful for evaluation by the lecturer who gave the talk, and who knows just how the program was handled and where the strong and weak points existed.

The obvious answer to any major improvement step for naturalist services is expansion of equipment, transportation, and personnel numbers. Therefore, any suggestions are made in a practical sense, considering the limitations involved as far as I know them. Then, in a study of this sort where opinion is invited; there is the question of whether the public really knows what it should have, or what is best for conservation understanding. With this in mind, the emphasis of their opinions has been somewhat modified in program recommendations. Furthermore, in reading through the following pages, the impression might be gained that the lecture program is suffering and in need of considerable overhauling. This suggestion is not the intent of this paper. The lecture program and other naturalist activities are conducted in this park very effectually and by utmost effort and coordination of all concerned. This paper should only be further evidence of endeavor by the Park Service, to improve and better their services.

CONCLUSIONS AND RECOMMENDATIONS

1. More lecture services needed for transient visitors in the Park area.

An apparent and substantial revelation throughout the study was that the majority of lecture audiences had been in the Park before and already had a good appreciation and understanding of National Park concepts. Records of law violators within the Park, indicate that Coloradans are high on the list. Possibly they are so used to the mountain areas that they take the scenery and natural features for granted. With a kind of proprietary interest, they seem more prone to disregard regulations and destroy natural features, than those coming from long distances. As indicated by the study, a small percentage of Coloradans attend lectures and have little other contact with the interpretation division. This group, therefore, should be given attention by the naturalist services at every opportunity; this being optimum on weekends (especially Sunday evenings).

Another important group, which warrant more attention in lecture programming than they have previously received, contains the "tour conducted" visitor. In this Park a condition exists where a single tour operator maintains a bus-tour-hotel service, in a circle-routing from Denver, on a National Park Service franchise. Thousands of tourists throughout the summer are picked up in Denver (from trains and buses arriving from the east), and driven to the operator's hotel on the east side of the Park where they remain one and sometimes two nights. Then they are transported via the

Trail Ridge Road to the top of the Continental Divide for a short stop at the operator's curio and hamburger haven. (Incidentally, there is also a small Park Service Museum enclosed in the same building). Continuing to the west side of the Park, a night or two is spent at the operator's hotel at Grand Lake. From there they progress to Denver via a different route. Without an appropriate comment on the business acumen (or something) of this "operator", it is sufficient to add that lecture services have been provided intermittently to this group. One lecture per week is scheduled for the passing parade at each of the hotels. Considering that many get through the Park without any contact with the ranger force, and realizing that the large bulk of this type of visitor have little or no conception of conservation realities nor of Park purposes, it would seem highly appropriate that a more coordinated effort (with bus schedules) be made to enlighten this multitude. The narrow view sometimes retained, is exemplified by the lady who inquired (after having traveled through the Park from Estes Park to Grand Lake), "When do we arrive in Rocky Mt. National Park?" The providing of more lecture services with present personnel shortages would mean curtailing some other program items. Even so, this group should probably have priority over those more "fortunate" groups staying longer in the Park.

One possible solution to this problem is to school the bus drivers on Park features. This attempt was made several years ago, but failed when the drivers were unable to assemble satis-

factorily. One bus driver, upon discovering that his tips increased in proportion to his Park knowledge, attended most of my lectures, whenever possible. I enjoyed his acquaintance until we started talking about salaries; thereafter, my feeling was to demand a cut from his tips.

2. A weekly program, on a "high level" and of more technical nature, needed for those already familiar with the Park.

As suggested above many of the participants are already acquainted with the Park Service, and they have indicated preference for something above and beyond the regular Park introductory programs. An occasional program of more technical nature, if advertised as such for Park "regulars," might have exceptional appeal. A large percentage of these are teachers, students, and educated people who, when they arrive home after a vacation, are radiation points of Park philosophy both by picture and by word. Providing their knowledge is carefully groomed, and their appreciation intensified by above average experiences, their probable influence is tremendous.

3. Raising the quality of lectures.

A more careful consideration of the size of summer staff and range of lecture subjects would be a start towards better lectures. There is a suggestion in the questionnaires, and also a personal knowledge, that the assembly of lecture material and information is performed more hastily than is desirable. Of course the limitations of slide material and the variety of subjects presented by different naturalists is a large contributing

factor to this unthoroughness. It is easy for experienced personnel to assemble a group of slides in half an hour and present an "adequate" program in the next hour. But it is questionable if even a day is sufficient for the same personnel to carefully organize slides and information for the presentation of an inspirational type program. It is a mistake to select illustrative slides on the "fly" and hope to form a lecture of high quality,--and it is equally poor to throw a slide on the screen, make a few pertinent or humorous statements, and then move on to the next slide. For the new men on the staff, it is even more difficult, and time and briefing should be allowed for careful lecture preparation. This is especially true when slides must be refiled at the end of each lecture for use by others.

Since most of the lectures are based on kodachrome slide material, there is a great need for lecture "fill in" material on all subjects. This material should include slide copies of maps, charts, diagrams and any minutiae of nature which may help in building up a lecture in orderly form. Too often some of the main points of a talk are without illustrative material. An organized evaluation of slide material should build up a long list of slides needed for lectures. There is usually a sufficiency of the general scene-type of slide.

Early selection of temporary naturalists and advisement of specific lectures they will be responsible for, might be of good assistance in raising lecture quality. But even this is impeded by the lack of knowledge (for the distant temporary) of slide material available, around which the lectures may be built.

A more careful selection of ranger-naturalists is another possibility. Educational institutions today recognize that the highly educated or specialized man, who is outstanding in research or has a "high standing" in his field, is not always the best teacher. And even being classified as a teacher, is not always the best recommendation for this job of nature interpretation in simplified manner. The naturalist at his best in the field and the lecture room is an artist, and if he is enthusiastic and sincere in his work has a good chance of reaching high peak performance. The Park Service has usually awaited the deluge of ranger-naturalist applications to fill open positions. These positions might have a better variety of applications if solicitation at appropriate places was inaugurated.

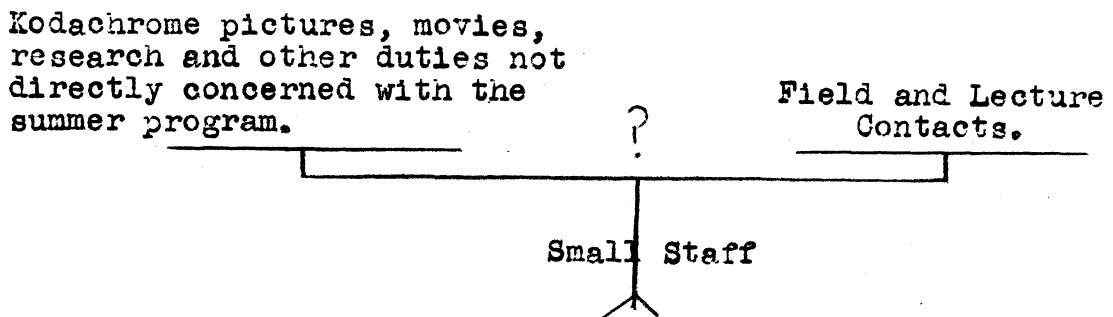
4. Equitable distribution of lecture assignments among limited naturalist staff.

It is the accepted government circumstance that the better a man performs his duties and the more experience he gains, the greater are his chances of being considered a success, and therefore liable to promotion to executive or administrative position. This sometimes "unfortunate" occurrence robs active field positions of the best personnel. This might aptly describe the situation existing at the time of this study. Of the staff of four, the Park naturalist and his assistant were so encumbered with office work and visual aids that they were able to devote only a portion of their time to the main interpretation phases of field and lecture programs. In view of the recognized importance of

public contact in this work, it does not appear that the greatest emphasis was possible where needed. It remains only for the persons of higher authority to wipe out these "paper work" demands at least during the active summer period, to permit full public service by these experienced personnel.

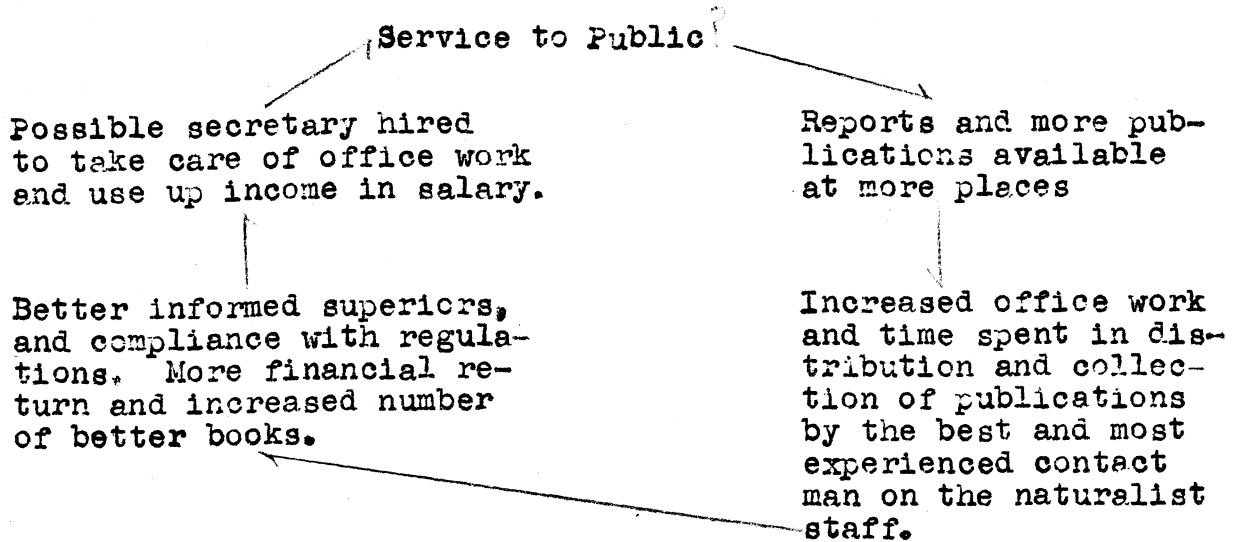
Sometimes it appears that this generally fine naturalist program, with its meager congressional support, is breaking its back and working to its detriment by over-extension and excessive effort. It is truly commendable that the personnel have been willing and eager to provide good services under sometimes difficult circumstances. It is conceivable that, if the service was to only equal the confidence and financial support meted out by government, then public opinion might create new demands and better conditions. It is doubtful that a conscientious personnel existing as it does, could permit this situation to evolve.

Several charts follow which may more ably point out the questions of distribution of talent and performance, with too few naturalists:



Balance Scale of Public Service

It is true that certain "other" duties are absolutely necessary, but they should be minimized in view of personnel shortage circumstances. Many of these items are frequently provided by enthusiastic temporary employees engaged in days-off endeavor.



Naturalist Circle of Confusion

5. Lecture program should consider age group under 18 years of age.

One evening after a lecture program, a 16 year old boy approached me and asked why he hadn't been allowed to fill out a questionnaire. He said he participated in all the lectures and other activities of the naturalist program, was very interested and had some definite opinions for improvement of the services. This conversation served to point up an ever present fact. That 26 percent of all audiences consisted of children under 18 and that many of these were in the 13-18 year age group; a most "eager"

and impressionable age classification. Here is a great opportunity for developing conservation understanding and for setting young minds on a worthwhile and stable interest. All lectures have been geared for the adult level and the kids catch what crumbs they can. If the lecture quality is to be raised and possibly more technical knowledge presented, then these bits available for the children will grow fewer and fewer. In view of their good representation and our obligation to conservation's fundamental purposes, it would not be illogical to present an evening program two or three times a month principally for the youth in the area. Handling and teaching children properly is probably the most difficult of all naturalist assignments and unless qualified and experienced personnel are available, it would be better not to attempt it at all. Their programs would not necessarily have to be a straightforward kodachrome show or lecture, but could be varied in many ways. These would be excellent supplements for weekly hikes conducted for children.

6. Careful selection of Sunday night speakers and subjects needed.

As mentioned, these specially listed programs at Moraine Museum often draw six times the attendance of the regular weekly museum lectures. Many attending are local and state residents who rarely attend other programs or activities. Every effort should be made to schedule programs which will bring home the problems and concepts of conservation in our country today. It might be appropriate to select the best programs and speakers available from the ranger staff more frequently. Another suggestion is that the "outside" guest "artist" of the evening be asked

to cut down the length of his program, and the Park Naturalist or another qualified person give a 10 or 15 minute talk before the main lecture on conservation philosophy. Also, an additional service might result if the museum was kept open for a half hour or so, after these Sunday night programs.

7. Pre-season and semi-weekly staff conferences would help naturalist program.

At the start of a summer season there is some confusion and haste to get the program under way and this is further complicated by the irregular arrival of ranger-naturalists for summer duty. A naturalist's conference of several days duration even at the expense of the main program, is highly desirable. Here the Park naturalist can expand his philosophy and set the key note for the entire summer season. Lecture material can be discussed and reviewed, new policies emphasized, and the smaller details of operation refreshed in the minds of temporary personnel. In short, a good working understanding and morale can be established, which will have a direct reflection in the summer naturalist program. The semi-weekly conference is also most necessary to discuss current problems. The occasional memorandum, sometimes issued, is an impersonal and insidious instrument, gratifying chiefly its' writer.

8. Weekly campfire program necessary.

As indicated in the study, there is a real demand for at least one campfire each week. These should be good, well planned programs and should occasionally include slide or lecture material.

If the portable generator could be set on blocks and enclosed for the summer at Glacier Basin campground, the physical effort of these programs would be greatly lessened. This campground is probably ideal in seating arrangement and location, for the majority of these activities. A slight rain is usually not justification for cancelling one of these scheduled campfires. Many hardy vacationers would just as soon sing in the rain as not, therefore the programs should be carried through in any weather short of blizzard or hurricane.

9. The average lecture audience.

For those who lecture regularly at the Moraine museum it might be well to summarize the composition of an average audience. Even lecture audiences at other places conform fairly well to the following expectancies. There will be 119 people attending the lecture (of which 20 are under 18 years old), and if you pass out questionnaires 77 of them will be completed satisfactorily. Of naturalist activities, 35 people will prefer lectures, and 19 desire field trips. 23 people will have a strong preference for animal subjects; 16 will be most interested in an orientation program; and 12 prefer a "formation of the mountains" lecture. Although the entire audience will be kindly disposed to any subject presented, 31 persons present participate frequently in the naturalist program, and 48 people in the audience have been in the Park in previous years. 31 persons will have visited 5 National Parks or more. 29 individuals are visiting in the Park from a few days up to one week, whereas 27 are remaining about two weeks. 20 people will

be either school teachers or students, 22 are housewives, and 13 are educated, professional people. The audience will be about equally divided between large metropolitan residences and smaller towns under 100,000 population. There will be a fairly even age distribution, ranging from children to over 55 years; with a slight predominance of middle aged persons.

10. Lecture programming.

Some of the items for inclusion in the lecture program at Moraine Museum have already been indicated, but the following will serve to summarize these features. Due to the length of stay of average visitors, it would be best to revolve the lecture programming on about a two weeks cycle during the summer. In this cycle the orientation, geology, and animal life subjects should be included at least once, and twice if possible. The titlings of these lectures do not always have to be the same. From conversation with Park visitors, it was indicated ~~that~~ they do not prefer a standardized program with a set number of lectures and subjects. The title versatility of the program in Rocky Mountain National Park has drawn many appreciative and favorable comments. Sometimes the subject matter varies but little, but apparently it is enough to make "repeaters" of many people. Some very acceptable variety, to both audience and lecturer, is the occasional changing of speakers, when feasible, for the same subject matter.

In order to make effective the recommendations mentioned in this study, it would be necessary to cut down the program in other

places, with the present limited staff. This could be done by eliminating such lecture places as Daven Haven on the Grand Lake side of the Park, and the Brinwood and certain others where the occupants are within easy driving range of larger lecture halls, in which programs are given regularly. It is important to recognize that the ranch or hotel visitor gleans much Park knowledge from managers, wranglers, and others working about hostelryes. Many of the lecture requests by hotels and ranches are prompted by pure entertainment motives. These agreements therefore, should be evaluated solely from lecture needs in those areas. The more transient visitor does not have the Park acquaintance opportunity and in the balance of service, probably rates more proportional effort from the naturalist.

The orientation lecture should be the most frequently presented program throughout the summer; and in this, there is good evidence to indicate it should be of a very generalized nature. Instead of interjecting Park purposes and features exclusively, the relation of National Parks and Monuments to other agencies, and the conservation problems of the country should be included. The available natural features and aspects of the Park should be only briefly mentioned; these can be detailed in following lectures. This type material should also set the tenor of the Sunday evening programs at Moraine amphitheater.

THE PARK SERVICE AND THE NATURALIST IN THE NATIONAL SCENE

Colorado and ten states east of the Rockies provide a pool of about 44,000,000 people which is the major source of vacationers visiting Rocky Mountain National Park. The potential traveling population is within 24 hours steady driving distance of the Park. In the last 10 years the number of persons traveling through this region has almost doubled; in 1948 there were about a million visitors passing through Park entrances. Of these, an approximate 40,000 attended naturalist lecture services conducted in and about the Park (average attendance about 120 per lecture). Nearly 6,000 participated in field trips and hikes and another 180,000 had brief contacts with the interpretation division; for example, talking with a naturalist or passing through one of the two museums. Figures mentioned were obtained from Park Service records.

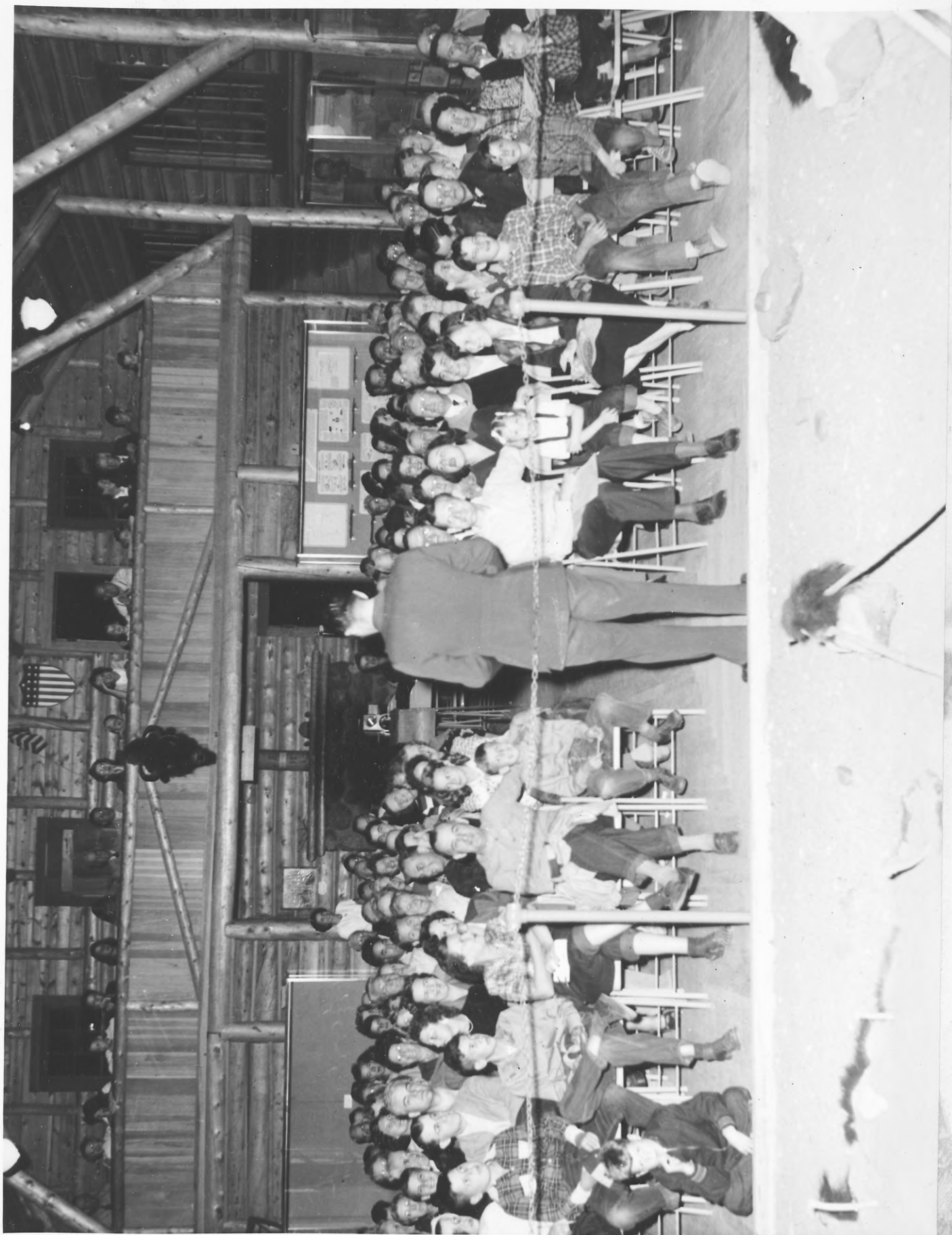
The National Park Service administers 92 National Monuments and 27 National Parks, both totaling nearly 21 million acres. These are visited annually by well over 10,000,000 people. The potential audiences and opportunities are apparent.

When comparing recreational aspects of National Parks and our 153 National Forests (totaling nearly 180,000,000 acres of wild land) the Park Service immediately assumes the gigantic role of conservation education. The naturalist services are well established and sufficiently equipped to perform a fine service by contacting the masses concentrating in National Parks.

Dr. George Friedman, French sociologist, speaking in Ann Arbor, Michigan (November, 1948) declared, "leisure is the great

problem of today." Shortened working hours and the monotony of the machine age combined with a mechanization of even leisure time, all contribute to a degraded and uninspired life for today's workers. The Park idea is dedicated ^{to} and justified in combating this way of life. Its contribution to a greater moral health and strength of the Nation was emphasized in its formative years by Horace J. McFarland, (then President of the American Civic Association) when he stated in part, "The greatest of all park products is the product of civilization, the product of patriotism, the product of real preparedness, the product of manhood and womanhood unobtainable anywhere else than in the broad open areas which the Nation alone can provide." This was in reference to the economic destiny of our national parks and is quoted from Naturalists' Conference Proceedings, Region Four, 1948.

The naturalist then, may consider himself to be the integrator or transmitter of a way of life and appreciation, fundamental to our national well being. He is able to accept the world around him as a reality. He accommodates himself and understands people and the wilderness and can transmit his information in rich simplicity to any who listen. He is a very necessary part of the kind of world we desire, but cannot sometimes delineate and comprehend.



Park Naturalist Alberts Introduces a Program at Moraine Museum on
Early History and Pictures of Rocky Mountain National Park.



Photo of Moraine Park Museum Audience During an Illustrated Lecture

UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
ROCKY MOUNTAIN NATIONAL PARK
Estes Park, Colorado

This is part of a study to determine the interest of the public with regard to the Naturalist Lecture Program. We will appreciate your sincere answers.

1. Number in order of your preference the following Naturalist activities:

- Guided Nature Field Trips and hikes.
 Illustrated Naturalist Talks
 Campfire programs with Singing, Stories and Naturalist Talk
 Auto Caravan Trips with Scenic and Explanatory Stops

2. Number your 1st, 2nd, 3rd, and 4th choices of the following Kodachrome talks
IN ORDER OF YOUR INTEREST:

- | | |
|---|--|
| <input type="checkbox"/> Flowers | <input type="checkbox"/> The Forest Story |
| <input type="checkbox"/> Birds | <input type="checkbox"/> The Alpine Tundra Country |
| <input type="checkbox"/> Animal Life and Wildlife Management | <input type="checkbox"/> Indian and Pioneer Stories of the Region |
| <input type="checkbox"/> Ranger Activities | <input type="checkbox"/> Formation of the Mountains and Glacier
Stories |
| <input type="checkbox"/> Getting Acquainted with the Park
via Auto or Short Hiking Trips | <input type="checkbox"/> Less Accessible Regions of the Park |

3. Participation in our Naturalist Program: (check one) Occasional Frequent

4. How many National Parks have you visited? _____

5. First visit to this Park? Yes No

6. Length of visit here? _____ Check here if you are a summer or permanent resident.

7. Occupation or Profession? _____

8. Your age group? (Check one please)

(18 - 25) _____ (26 - 35) _____ (36 - 45) _____ (46 - 55) _____ (over 55) _____

9. Your Home Town and State _____

10. How did tonight's talk impress you?

(Check one:)

- A little too technical
 A little too simplified
 Satisfactory

(Check one or more:)

- Talk was chiefly--
 Educational
 Inspirational
 Entertaining

Please make any additional comments you care to about the general program or the talk tonight. THANK YOU.

Lecturer _____ Title of Talk _____
 Date _____ Total Attendance _____
 Place _____ Total Questionnaires Rec'd. _____

1. Naturalist Activities (4 choices):

Field Trips 1st _____ 3rd _____
 2nd _____ 4th _____

Lectures 1st _____ 3rd _____
 2nd _____ 4th _____

Campfires 1st _____ 3rd _____
 2nd _____ 4th _____

Auto Caravans 1st _____ 3rd _____
 2nd _____ 4th _____

2. Lecture Interests (10 choices):

Flowers: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Birds: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Animal Life: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Ranger Activ.: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Auto & Hiking: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

The Forest Story: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Alpine Tundra: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Indian & Pioneers: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Formation of Mtns: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

Less Acces. Regions: 1st _____ 3rd _____
 Total _____ 2nd _____ 4th _____

3. Naturalist Program Participation: Occasional _____
 Frequent _____

4. National Parks visited: One _____
 Two _____ Three _____
 Four _____ Five or more _____

5. First visit to Park? Yes _____
 No _____

6. Length of Visit: Up to one week _____
 About two wks. _____ About 3 wks. _____
 About 1 mo. _____ About 6 wks. _____
 Summer or permanent resident _____

7. Occupation: Housewife _____
 Teacher or student _____

8. Age Group: Under 18 _____ (18 - 25) _____
 (26 - 35) _____ (36 - 45) _____
 (46 - 55) _____ (over 55) _____

9. Home Town & State: Colorado _____
 Large Metropolitan Areas _____ All other _____

10. Talk: Too Technical _____
 Too Simplified _____
 Satisfactory _____
 Educational _____
 Inspirational _____
 Entertaining _____

COMPILATION SHEET OF NATURALIST LECTURE STUDY ROCKY MOUNTAIN NATIONAL PARK BY JAMES GILLIGAN 1948

Table with columns for LECTURE TITLE, LECTURER AND PLACE, DATE, TOTAL ATTENDANCE, COMPLETED QUESTIONNAIRE, INCOMPLETE QUESTIONNAIRE, NATURALIST ACTIVITY, PREFERENCES (4 CHOICES), LECTURE SUBJECT INTERESTS (4 CHOICES), NATURALIST PROGRAM PARTICIPATION, NUMBER OF NATIONAL PARKS VISITED, FIRST VISIT TO THE PARK, LENGTH OF STAY IN PARK AREA, OCCUPATION, RESIDENCE, AGE GROUP, and LECTURE REACTION.

Lecture on "Park Wildlife" at Holzworth's Dude Ranch, Aug. 10th Not included in above compilation.

FREE NATIONAL PARK NATURALIST SERVICES

— STAFF —

Edwin C. Alberts, Park Naturalist; J. H. Heger, J. P. Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

WEEK OF JUNE 21 TO 26, 1948

Monday, June 21

Morning hike to Dream Lake. Meet at Bear Lake parking area 8:30 a.m.
8:00 p.m.—Illustrated talk at Moraine Museum Auditorium, "The Trail Ridge Drive."

Tuesday, June 22

Morning hike to Loch Vale. Meet at Glacier Gorge parking area about 1 mile below Bear Lake, 8:30 a.m.
8:00 p.m.—Illustrated talk Moraine Museum, "What Are These Flowers?"

Wednesday, June 23

Morning hike to Gem Lake. Meet at Gem Lake turnoff on Devils Gulch road, 8:30 a.m.
8:00 p.m.—Illustrated talk, Moraine Museum, "Wild Animals of the Park."

Thursday, June 24

Morning hike to Lake Haiyaha. Meet at Bear Lake Parking area, 8:30 a.m.
8:00 p.m.—Illustrated talk at Moraine Museum. "Something About the Glaciers."

Friday, June 25

Morning hike to Bierstadt Lake. Meet at Bear Lake Parking area, 8:30 a.m.
8:00 p.m.—Illustrated talk, Moraine Museum. "The Forest Story."

Saturday, June 26

Motor Caravan to Fall River Pass. Meet Moraine Museum, 9:00 a.m.
8:00 p.m.—Illustrated talk, Moraine Museum. "Though the Parks of the West."

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ROCKY MOUNTAIN NATIONAL PARK
FREE NATIONAL PARK NATURALIST SERVICES

Period June 27 to July 3

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Herbert Heger, J. P. Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Sunday, June 27

8:00 p.m.—Guest Artist night at Moraine Park Museum auditorium. Illustrated talk by former Ranger-Naturalist Paul Nesbit. Title, "Poetry in the Mountains." Excellent Kodachromes presented in a way that only Paul Nesbit can do.

Monday, June 28

9:00 a.m.—Half day hike to Cub Lake. About 3 hours. Meet in front of Brinwood Hotel on the lower road to drive to start of hike. Gilligan.

9:00 a.m.—Half day motor caravan to Cascade Falls and return. About 3 hours. Landscape Appreciation. Razum.

8:00 p.m.—Illustrated talk at Moraine Park Museum, "Dwellers of the High Country." Gilligan.

Tuesday, June 29

9:00 a.m.—Half day hike to Lily Mt. No constructed trail. Wear rough clothing and stout footgear. Magnificent views. Unusual geological features. Meet at Lily Lake opposite Baldpate Inn entrance road on South St. Vrain Highway. Gilligan.

8:30 a.m.—Half day hike to Mills Lake. Meet at Glacier Gorge Parking area about a mile below Bear Lake. Razum.

2:30 p.m.—Nature walk. Meet at Moraine Park Museum. About 2 hours. Razum.

8:30 p.m.—Illustrated talk at Brinwood Hotel. Wild Life of the Park. Gilligan.

8:00 p.m.—Illustrated talk at Moraine Museum, "Along the Trail with a Naturalist." Razum.

Wednesday, June 30

8:30 a.m.—Half day hike to Emerald Lake. Meet at Bear Lake Parking area. Gilligan.

8:30 a.m.—Jr. half day hike for the children. Meet at Bear Lake parking area. Razum.

8:00 p.m.—Illustrated talk at Grand Lake Lodge, "Over Trail Ridge Road with a Naturalist." Gilligan and Razum.

8:00 p.m.—Illustrated talk Moraine Museum, "Geologic Features of the Park." Alberts.

Thursday, July 1

9:00 a.m.—Half day nature study hike, Wind River trail. Meet in cars at entrance arch to YMCA grounds. Razum.

8:30 a.m.—Half day hike to Loch Vale. Meet at Glacier Gorge parking area about a mile below Bear Lake. Gilligan.

8:00 p.m.—Illustrated talk at Moraine Park museum, "Down the Divide." Gilligan.

Friday, July 2

9:00 a.m.—Photography Caravan. Meet at Moraine Park museum. About 3 hours. Help will be given on exposure, composition, etc. Heger.

9:00 a.m.—Half day hike to Calypso Cascades and Ouzel Falls. Meet at Wild Basin Campgrounds about two miles west of Wild Basin Lodge on the dirt road along North St. Vrain creek, west of Copeland Lake. Razum.

8:00 p.m.—Illustrated talk at Glacier Basin amphitheatre. "Stories of the Glaciers. Gilligan.

8:00 p.m.—Illustrated talk at Fall River Lodge, "Your Rocky Mt. National Park." Heger.

8:00 p.m.—Illustrated talk, Moraine Park museum, "Game and Predatory Animals." Razum.

Saturday, July 3

10:45 a.m.—Nature Sketches Broadcast released through N. B. C. Network from coast to coast. All children invited to participate. Meet at Moraine Park museum to drive to Many Parks Curve. Subject, "From the Roadside." Alberts.

8:00 p.m.—Illustrated talk at Moraine Park museum, "Adventures with a Color Camera." Heger.

Moraine museum open daily, 8:30 a.m. to 5:00 p.m.

Daily, at 3:00 p.m., a short talk on glaciers, illustrated with the visible landscape is presented at Moraine museum.

Persons wishing to receive these weekly programs are requested to send a postcard stating the number of copies desired. Regulations require that a written request be on file before such material can be mailed.

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ROCKY MOUNTAIN NATIONAL PARK
FREE NATIONAL PARK NATURALIST SERVICES

Period July 4 to July 10

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Herbert Heger, J. P. Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

SUNDAY, JULY 4

8:30 p.m.—Guest Artist night. Exceptional color slides of one of our least known areas by Chief Ranger J. Barton Herschler, "Dinosaur National Monument—Land of the Unknown." Moraine Amphitheatre.

Monday, July 5

7:00 a.m.—Bird observation walk on Fern Lake Trail. About two hours. Meet at parking area at end of road about one mile above Brinwood hotel in Moraine Park. Gilligan.

8:30 a.m.—Half-day hike to Loch Vale. Meet at Glacier Gorge parking area about one mile below Bear Lake parking area. Razum.

2:30 p.m.—Rock observation walk. Meet at Moraine Park museum. Razum.

8:00 p.m.—Illustrated talk at Moraine museum auditorium, "Plant Life of the Rockies in Kodachrome." Gilligan.

Tuesday, July 6

9:00 a.m.—Junior hike for the children. Meet at the same place as the above hike. Gilligan.

8:00 p.m.—Illustrated talk at Grand Lake lodge, "Glaciers, Molders of the Landscape." Razum.

8:00 p.m.—Illustrated talk at Phantom Valley, "Flowers and Animal Life of the Rockies." Gilligan.

8:00 p.m.—Illustrated talk at Moraine museum auditorium, "How to Enjoy Rocky Mountain National Park." Alberts.

Wednesday, July 7

8:30 a.m.—Auto caravan, about three hours. (Learn to understand the scenery). Meet at Moraine Park museum. Razum.

8:30 a.m.—Half-day hike to Lake Haiyaha. Meet at Bear Lake parking area. Gilligan.

2:30 p.m.—Nature observation walk. About 2 hours. Meet at Camp Woods. Gilligan.

8:00 p.m.—Illustrated talk, "Trails of the Rockies." Moraine museum. Razum.

8:30 p. m.—"Nature Photography is Fun," illustrated with Kodachrome. Glacier Basin campground. Gilligan.

Thursday, July 8

8:30 a.m.—Three-quarter day hike from Bear Lake to Odessa and Fern Lakes. Meet at Bear Lake parking area. Arrange to be met at end of road about a mile west of Brinwood Hotel in Moraine Park about 4:30 p.m. Bring lunch and slicker. Gilligan.

8:00 p.m.—Illustrated talk, "Flora

and Fauna Along Trails of Wild Basin." Moraine museum. Gilligan.

8:30 p.m.—Illustrated talk at Estes Park Chalets. "Trail Ridge and the Scenic Wonders of Rocky Mountain National Park." Razum.

Friday, July 9

8:30 a.m.—Photography caravan. Meet at Moraine Park museum. Heger.

8:30 a.m.—Half-day hike to Emerald Lake. Meet at Bear Lake parking area. Razum.

2:30 p.m.—"A Walk Around Bear Lake Explaining the Geology of the Area." Razum.

8:00 p.m.—Campfire at Bear Lake. Song fest and story telling. A real get-together. Bring warm clothing and blankets. Heger.

8:00 p.m.—Illustrated talk at Moraine museum. "Geology Is Interesting." Razum.

Saturday, July 10

NATURE SKETCHES KOA radio program. All children invited to attend. Topic, "Tundra Country." Meet in cars at Moraine museums at 10:30 a.m. to drive to point of broadcast. 12:00 noon to the network and will be released at 1:00 p.m. on KOA, Denver, making it possible for the children to hear themselves. This program is heard over most of NBC stations throughout the country. Alberts and Heger.

Sunday, July 11

8:30 p.m.—Guest Artist Night at Moraine Amphitheatre. "Flowers and Scenes of the Rocky Mountains." A visit via Kodachrome to the many wildflower gardens of the region and the exquisite mountain surroundings. Mr. E. L. Hoyt of Estes Park.

Moraine museum opens daily at 6:30 a.m. to 5:00 p.m.

Daily at 3:15 p.m. a short talk on glaciers, illustrated with the visible landscape, is presented at Moraine museum.

A self-guiding nature trail around Bear Lake can be enjoyed by young and old. A Very easy walk, about half mile in length.

In case of unfavorable weather, Moraine Amphitheatre programs are held indoors at the museum where limited seating space is available. Wear warm clothing for outdoor evening programs.

Persons wishing to receive these weekly programs are requested to send a postcard stating the number of copies desired. Regulations require that a written request be on file before such material can be mailed.

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ROCKY MOUNTAIN NATIONAL PARK
SCHEDULE OF FREE NATURALIST SERVICES

July 12 to July 18, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Herbert Heger, J. P. Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, July 12

7:00 a. m.—Bird Observation Walk. YMCA grounds. Meet in front of the main building of the "Y". About 3 hours. Mr. Gilligan

8:30 a. m.—Half day hike to Mills Lake. Meet at Glacier Gorge Parking Area (about a mile below Bear Lake Parking Area). Mr. Razum.

1:30 p. m.—"Around Bear Lake with a Geologist." About one hour. ½ mile. Mr. Razum.

8:00 p. m.—Illustrated talk at Moraine Museum Auditorium, "Dwellers of the Tundra." Mr. Gilligan.

8:00 p. m.—Illustrated talk, Brinwood Hotel. Public welcome. "Glaciers, Modelers of the Landscape." Mr. Razum.

Tuesday, July 13

8:30 a. m.—Half day JUNIOR hike to Brinwood Gulch. Adults welcome. Meet where Cub Lake trail takes off from Brinwood road, ¼ mile beyond the Brinwood Hotel. Mr. Gilligan.

8:30 a. m.—Half day hike to Cub Lake. Meet at same point as above Junior hike. Mr. Razum.

1:30 p. m.—Rock walk, from Moraine Museum. "Rocks Have Their Difference." Actual field trip over moraines, etc. Mr. Razum.

8:00 p. m.—Illustrated colored movies, "Your Rocky Mountain National Park." Grand Lake Lodge, Grand Lake, Colo. Mr. Razum.

8:00 p. m.—Illustrated talk at Holzworth Guest Ranch, Grand Lake Section of the park, "The High Country of the Park." Mr. Gilligan.

8:00 p. m.—SPECIAL FEATURE, "The Isle Royale." Outstanding color illustrated talk on the Isle Royale National Park, Michigan, by Park Ranger Karl Gilbert, formerly stationed at that point. Moraine Museum Auditorium.

Wednesday, July 14

8:30 a. m.—ALL DAY HIKE. Toward Lawn Lake. Meet at the parking area where Lawn Lake trail meets Fall River Road, about ½ mile from main road junction in Horseshoe Park.

BRING SLICKER AND LUNCH. About 12 miles. Mr. Gilligan.

9:00 a. m.—Automobile Caravan. Meet at Moraine Museum, trip over at noon. "Understanding the Landscape." Mr. Razum. (Hidden Valley, Chasm Falls).

8:00 p. m.—Illustrated talk, Moraine Museum Auditorium. "Peaks of the Park." Mr. Razum.

Thursday, July 15

8:30 a. m.—Half day hike up Deer Mountain. Meet at Deer Ridge Chalets. Extensive mountain views. Mr. Gilligan.

8:30 a. m.—Junior exploration hike to Eagle Cliff. Meet at Moraine Museum. Mr. Razum.

2:30 p. m.—Random Nature walk—about 2 hours. Meet at Camp Woods. Mr. Gilligan.

8:00 p. m.—Illustrated talk at Daven Haven Lodge Amphitheatre, GRAND LAKE. OPEN TO PUBLIC. "Flora and Fauna of the National Park." Mr. Heger.

8:00 p. m.—Illustrated talk at Estes Park Chalets. "Your Rocky Mountain National Park." Mr. Gilligan.

8:30 p. m.—SPECIAL FEATURE PROGRAM. MORAINÉ MUSEUM AMPHITHEATRE, RANGER SHOW, "What the Park Rangers Do." This program is a must on your list of activities. A series of demonstrations of packing, rescue work, alpine climbing and ranger activities in general. Presented by members of the Ranger staff under direction of Chief Ranger J. Barton Herschler.

Friday, July 16

9:00 a. m.—Photography Caravan. Meet at Moraine Museum. Special help will be given to exposure, composition, etc. Mr. Heger.

8:30 a. m.—Half day hike to Gem Lake. Curious geological features. Meet at the start of Gem Lake trail, on Devils Gulch road. Mr. Razum.

5:30 p. m.—POPULAR FEATURE. Alpine Caravan. A drive to above timberline on the tunnel; nature walk for alpine flowers; fine sunset. A campfire will be built—bring foodstuffs appropriate. Group singing and star observation after supper. **Bring**

warm clothing and blankets for cold evening. Messrs. Heger and Razum.

8:00 p. m.—Illustrated talk, Moraine Museum. "Common Animals of the Park." Mr. Gilligan.

Saturday, July 17

COAST TO COAST RADIO BROADCAST. "Nature Sketches." Children urged to attend. Topic this week, "The Rangers and Their Work." Meet in cars at Moraine Museum by 11:00 a.m. to drive to point of broadcast. Program begins at noon, to the NBC network, and is released on KOA, Denver, at 1:00 p.m., permitting the children to hear themselves. Messrs. Alberts and Herschler.

8:00 p. m.—Illustrated talk, Moraine Museum Auditorium. "Through the Park with Color Movies." Mr. Heger.

Sunday, July 18

8:30 p. m.—Moraine Amphitheatre. SPECIAL GUEST ARTIST NIGHT. "Trail Treasures," outstanding Kodachromes of what you see along the trails, presented by Gene Hancock of Loveland, Colorado.

OTHER FREE SERVICES

Moraine Museum open daily 8:30 a.m.-5:00 p.m. Glacier talk there daily 3:15 p.m. Self-guiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs, which sometimes must be given in Museum with inadequate seating facilities.

Each morning hike is about five miles roundtrip over maintained trails. Return is made to cars by 12:00-12:30 p.m. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if a written request is on file; send a postal card to National Park Service, Estes Park, Colo., to get them.

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ROCKY MOUNTAIN NATIONAL PARK SCHEDULE OF FREE NATURALIST SERVICES

July 19 to 25, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Herbert Heger, J. P. Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, July 19

7:00 a. m., Bird Observation Walk at the end of Brinwood Road. About 3 hours. Mr. Gilligan.

8:30 a. m., Half day hike to Lake Hiayaha. Meet at Bear Lake Parking Area. Mr. Razum.

1:30 p. m., Around Bear Lake with a Geologist. One half mile easy walk. About one hour. Meet at Bear Lake Parking Area. Mr. Razum.

8:00 p. m., Illustrated talk "Trail Trips in Rocky Mountain National Park" at the Y. M. C. A. Mr. Gilligan.

8:00 p. m., Illustrated talk "Scenic Marvels from the Roadside" at Moraine Museum.

Tuesday, July 20

8:30 a. m., All day hike to Black Lake via Mills Lake. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake Parking Area. Those that do not want to make the entire trip may go as far as Mills Lake. Bring slicker and lunch. Mr. Razum.

8:30 a. m., Half-day hike to Fern Falls via the "Pool". Meet at parking area at the end of the Brinwood Road. Mr. Gilligan.

8:00 p. m., Illustrated talk at Phantom Valley Ranch, on the western side of the Park. "The Forest Story". Mr. Gilligan.

8:00 p. m., Illustrated talk "Scenic Wonders from the Roadside". Grand Lake Lodge. Mr. Alberts.

8:00 p. m., Illustrated talk "Glaciers, Modelers of the Landscape". Moraine Museum. Mr. Razum.

Wednesday, July 21

8:30 a. m., Half-day hike to Emerald Lake. Meet at Bear Lake Parking Area. Mr. Gilligan.

9:00 a. m., Auto Caravan. Meet at Moraine Museum. About 3 hours. "Understanding the Landscape." A drive along Trail Ridge Road. Mr. Razum.

1:30 p. m., Nature walk around Bear Lake. One-half mile hike

on easy, maintained trail. About 2 hours. Meet at Bear Lake Parking Area. Mr. Gilligan.

8:30 p. m., Feature Night. Moraine Amphitheatre. Illustrated talk by Fred Packard, Field Secretary of the National Parks Association. "Reminiscences of a Wildlife Technician."

8:30 p. m., Illustrated talk at Glacier Basin Campground amphitheatre. "Flowers of the Park in Kodachrome." Mr. Gilligan.

Thursday, July 22

8:30 a. m., Leisurely Observation Walk up Roaring River. Meet at Fall River Lodge on Old Fall River Road. About 3 hours. Mr. Gilligan.

8:30 a. m., Half-day Junior Exploration Trip along the Beaver Works of Fall River. Meet at the same place as the above hike. Mr. Razum.

2:00 p. m., Nature Walk. Meet at Moraine Museum. About 2 hours. Mr. Gilligan.

8:00 p. m., Illustrated talk at Estes Park Chalets. "Along the Highway in Rocky Mountain National Park". Mr. Razum.

8:00 p. m., illustrated talk at Moraine Museum. "The Forest Story." Mr. Gilligan.

8:00 p. m., Illustrated talk Daven Haven at Grand Lake. "Colored Movies of the Park". Mr. Alberts.

Friday, July 23

8:30 a. m., all day hike from Bear Lake to Odessa and Fern Lakes. Make arrangements to be met at the end of the hike about one mile west of Brinwood Ranch about 4:30 p. m. Bring slicker and lunch. Mr. Razum.

9:00 a. m., Photo Caravan. Meet at Moraine Museum. Bring your photographic problems. A drive stopping at the best spots to get good pictures. Mr. Heger.

8:00 p. m., campfire at Bear Lake. Song fest and story telling. A real get together. Bring warm clothing and blankets. Messrs. Heger and Razum.

8:00 p. m., illustrated talk, "Birds of the Park in Koda-

chrome." Moraine Museum. Mr. Gilligan.

Saturday, July 24

COAST TO COAST RADIO BROADCAST over NBC, "NATURE SKETCHES." All children are urged to attend. Topic, "Trees of the Forest." Meet in cars at Moraine Museum at 11:00 a. m. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 p. m. over KOA, Denver, permitting the children to hear themselves. Messrs. Alberts and Heger.

8:00 p. m., illustrated talk at Moraine Museum, "Yellowstone and Grand Tetons in Color Movies." Mr. Heger.

Sunday, July 25

9:30 a. m., hike to Specimen Mtn. Meet at Milner Pass. This hike was arranged for the Fort Collins Chapter of the Colorado Mountain Club. However, others may attend. Bring slicker and lunch. Mr. Razum.

8:30 p. m., **SPECIAL GUEST ARTIST NIGHT.** "Pioneering in Color Photography." Fred Payne Clatworthy of Estes Park will show and discuss his experiences in color photography. He is one of the early pioneers in color photography. For years he has been staff photographer for the National Geographic Society, and has traveled the world over for these marvelous pictures.

Other Free Services

Moraine Museum open daily 8:30 a. m.—5:00 p. m. Glacier talk there daily 3:15 p. m. Self-guiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs, which sometimes must be given in Museum with inadequate seating facilities.

Each morning hike is about five miles roundtrip over maintained trails. Return is made to cars by 12:00-12:30 p. m. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park office and Moraine Museum. They can be mailed to you only if a written request is on file; send a postal card to National Park Service, Estes Park, Colorado, to get them.

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ROCKY MOUNTAIN NATIONAL PARK
SCHEDULE OF FREE NATURALIST SERVICES

July 26 to August 1, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Hebert Heger, Jim Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, July 26

8:30 a. m. Half-day hike to Loch Vale. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake. Mr. Razum.

1:30 p. m. Around Bear Lake with a Geologist. Easy one-half mile walk; about one hour of observation. Meet at Bear Lake Parking Area. Mr. Razum.

8:00 p. m. Illustrated talk at Moraine Museum. "Along the Trail with a Naturalist." Mr. Razum.

8:00 p. m. Illustrated talk at Brinwood Hotel. "Trail Ridge Road and Rocky Mountain National Park." Mr. Gilligan.

Tuesday, July 27

8:30 a. m. Half-day hike to Cub Lake, returning by The Pool. Meet about one-half mile beyond Brinwood Hotel on the Brinwood Road. Mr. Gilligan.

8:30 a. m. Half-day hike to Calypso Cascades and Ouzel Falls. Meet at Wild Basin Campground. About 15 miles from Estes Park on State Highway 7, turn off to right at Wild Basin Lodge; continue on gravel road to campground. Mr. Razum.

8:00 p. m. Illustrated talk at Moraine Museum. "Your Rocky Mountain National Park." Mr. Alberts.

8:00 p. m. Illustrated talk at Grand Lake Lodge. "Over Trail Ridge." Mr. Razum.

8:00 p. m. Illustrated talk at Holzworth Ranch on Grand Lake side of the park. "Trail Trips Through Rocky Mountain National Park." Mr. Gilligan.

Wednesday, July 28

8:30 a. m. Half day hike to Lake Hiayaha. Meet at Bear Lake Parking Area. Mr. Gilligan.

9:00 a. m. Auto Caravan. Meet at Moraine Museum. About three hours. "Understanding the Landscape." Mr. Razum.

1:30 p. m. Nature Walk. Meet at Glacier Basin Campground. About 2 hours. Mr. Gilligan.

8:00 p. m. Illustrated talk at Moraine Museum. "Trail Trips Through Rocky Mountain National Park." Mr. Gilligan.

8:00 p. m. Illustrated talk at Glacier Basin Campground. "Ge-

ological Story of the Rockies." Mr. Razum.

Thursday, July 29

8:30 a. m. All day hike from Bear Lake to Odessa and Fern Lakes. Make arrangement to be met at the end of the hike about one mile west of Brinwood Ranch about 4:30 p. m. Bring slicker and lunch. Mr. Gilligan.

8:30 a. m. Half day hike to Emerald Lake. Meet at Bear Lake Parking Area. Mr. Razum.

8:00 p. m. Illustrated talk at Moraine Museum. "The Better Known Peaks of the Park." Mr. Razum.

8:00 p. m. Illustrated talk at Daven Haven Lodge at Grand Lake. "Flora of Rocky Mountain National Park." Mr. Heger.

8:00 p. m. Illustrated talk at Estes Park Chalets. "Over Trail Ridge." Mr. Alberts.

8:00 p. m. Illustrated talk at Stanley Hotel. "Glimpses from Trail Ridge." Mr. Gilligan.

8:00 p. m. Illustrated talk at YMCA. "Colored Movies of Rocky Mountain National Park." Mr. Hackett.

Friday, July 30

8:30 a. m. Half-day hike to Gem Lake. Meet at turn off at trail on Devils Gulch Road. Mr. Razum.

9:00 a. m. Photographic Caravan. Meet at Moraine Museum. Help will be given on exposure, composition, etc. Mr. Heger.

1:30 p. m. Two-hour Nature Walk. Meet at Bear Lake Parking Area. Easy one-half mile hike around Bear Lake. Mr. Razum.

5:30 p. m. Alpine Caravan. Popular Feature. A drive to above timberline on the tundra. A Nature Walk for alpine flowers—a campfire will be built—bring foodstuffs appropriate. Group singing and star observation after supper. Dress warmly and bring blankets for a rather cool evening. Messrs. Heger and Razum.

8:00 p. m. Illustrated talk at Moraine Museum. "Wildlife of the Park." Mr. Gilligan.

8:00 p. m. Illustrated talk at Fall River Lodge. "Trail Trips

with a Naturalist." Mr. Alberts.
Saturday, July 31

NATURE SKETCHES. Coast-to-coast radio broadcast over NBC from KOA, Denver. All children are urged to attend. Topic, "When the Forest Burns." Meet in cars at Moraine Museum at 11:00 a. m. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 p. m. over KOA, permitting the children to hear themselves. Messrs. Alberts and Heger.

8:00 p. m. Illustrated talk with colored movies. "Yosemite, Sequoia, Kings Canyon, and Grand Canyon National Parks." Mr. Heger.

Sunday, August 1

8:30 p. m. Special Guest Artist Night at Moraine Amphitheatre. Dr. Max Giesecke will show his excellent kodachromes of Colorado. Dr. Giesecke has been on our programs in past years and is always well received.

Other Free Services

Moraine Museum open daily 8:30 a. m.—5:00 p. m. Glacier talk there daily 3:15 p. m. Self-guiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs, which sometimes must be given in Museum with inadequate seating facilities.

Each morning hike is about five miles round trip over maintained trails. Return is made to cars by 12:00—12:30 p. m. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if a written request is on file; send a postal card to Rocky Mountain National Park, Estes Park, Colorado, to get them.

SCHEDULE OF FREE NATURALIST SERVICES

August 2-8, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Hebert Heger, Jim Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, August 2

8:30 a. m. Half-day hike to Loch Vale. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake. Mr. Razum.

1:30 p. m. Around Bear Lake with a Geologist. An easy one-half mile walk; about one hour observation. Meet at Bear Lake Parking Area. Mr. Razum.

8:00 p. m. Illustrated Talk at Moraine Museum, "Flowers of the Region in Kodachrome." Mr. Gilligan.

8:00 p. m. Illustrated talk at the YMCA, "Glaciers—Molders of the Earth." Mr. Razum.

Tuesday, August 3

9:00 a. m. Leisurely Nature Walk in the "Valley of Dry Bones." About 2½ hours. Easy walking but no constructed trail. Meet in cars at Fall River Entrance. See next activity. Mr. Razum.

9:00 a. m. Junior Hike on Big-horn Creek. About 2½ hours. Meet in cars at Fall River Entrance. See above activity. Mr. Gilligan.

8:00 p. m. Illustrated Talk at Moraine Museum, "Through the Park and Monuments in Kodachromes." Mr. Alberts.

8:00 p. m. Illustrated Talk at Grand Lake Lodge, "Trail Ridge Road and Rocky Mountain National Park." Mr. Gilligan.

8:00 p. m. Illustrated Talk at Phantom Valley Ranch on Grand Lake side of the Park. "Glaciers—Molders of the Earth." Mr. Razum.

Wednesday, August 4

9:00 a. m. Half-day hike to Mills Lake. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake. Mr. Gilligan.

9:00 a. m. Auto Caravan. Meet at Moraine Museum. About three hours. "Understanding the Landscape." Mr. Razum.

8:00 p. m. Illustrated Talk at Moraine Museum, "Crater Lake in Kodachrome." Mr. Razum.

8:00 p. m. Illustrated Talk at Glacier Basin Campground, "The Forest Story." Mr. Gilligan.

Thursday, August 5

9:00 a. m. Half-day hike to Emerald Lake. Meet at Bear Lake Parking Area. Mr. Razum.

10:00 a. m. Leisurely Nature

Hike on Tundra. Meet at Rock Cut. Bring lunch and slicker. Mr. Gilligan.

8:30 p. m. SPECIAL PROGRAM AT MORAINÉ AMPHITHEATRE. "RANGER SHOW." Life and work of the Park Rangers. A series of presentations and demonstrations of packing, rescue work, alpine climbing, and ranger activities in general. Presented by members of the Park Ranger Staff, directed by Mr. Herschler.

8:00 p. m. Illustrated talk at Stanley Hotel, "Trail Trips Through Rocky Mountain National Park." Mr. Gilligan.

8:00 p. m. Illustrated talk at Estes Park Chalets. "Over the Trail Ridge." Mr. Razum.

8:00 p. m. Illustrated Talk at Daven Haven on the Grand Lake side of the park. Colored movies of the Park. Mr. Heger.

Friday, August 6

8:30 a. m. All day hike from Bear Lake to Odessa and Fern Lakes. Make arrangements to be met at the end of the hike about one mile west of Brinwood Ranch about 4:30 p. m. Bring slicker and lunch. Mr. Razum.

9:00 a. m. Photographic Caravan. Meet at Moraine Museum. Trip will be UP the Old Fall River Road to the Fall River Pass Museum. Help will be given on exposure, composition, etc. Mr. Heger.

8:00 p. m. Illustrated talk at Moraine Museum. "Along the Trail With a Naturalist." Mr. Razum.

8:00 p. m. Campfire at Bear Lake. Dress warmly. Song fest and story telling. Messrs. Heger and Gilligan.

Saturday, August 7

NATURE SKETCHES. Coast to Coast Radio Broadcast over NBC from KOA, Denver. All children are urged to attend. Topic, "Forest Insect Enemies." Meet in cars at Moraine Museum at 11:00 a. m. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 p. m. over KOA permitting the children to hear themselves. Messrs. Alberts and Herschler.

8:00 p. m. Illustrated talk at Moraine Museum with colored

movies. "Rocky Mountain National Park," featuring slow motion of Hummingbird feeding young. Mr. Heger.

8:00 p. m. Illustrated talk at Glen Haven Community house, "Your National Park." Mr. Alberts.

Sunday, August 8

8:30 p. m. SPECIAL GUEST ARTIST NIGHT AT MORAINÉ AMPHITHEATRE. "Through the Seasons in Rocky Mountain National Park," presented by Mr. Alfred J. Wands, an artist of Denver. His artist touch will make his lively kodachromes live on the screen.

OTHER FREE SERVICES

Moraine Museum open daily 9:00 a. m.-5:00 p. m. Glacier talk there daily 3:15 p. m. Self-guiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs. In case of bad weather, program will be held inside.

Each morning hike is about five miles round trip over maintained trails. Return is made to cars by 12:00-12:30 p. m. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if written request is on file; send a postal card to Rocky Mountain National Park, Estes Park, Colorado, to get them.

ROCKY MOUNTAIN NATIONAL PARK SCHEDULE OF FREE NATURALIST SERVICES

August 9 to August 15, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Hebert Heger, Jim Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, Aug. 9

8:30 A.M. Half day hike to Lake Haiyaha. Meet at Bear Lake parking area. Mr. Razum.

1:30 P.M. Nature Walk around Bear Lake with a Geologist. About one hour. Mr. Razum.

8:00 P.M. Illustrated talk at Moraine Museum. "Wildlife of Rocky Mt. National Park." Mr. Gilligan.

8:00 P.M. Illustrated talk at Brinwood Ranch. "Geological Story of the Rockies." Mr. Razum.

Tuesday, Aug. 10

8:30 A. M. Half day hike to Mills Lake. Meet at Glacier Gorge Parking area, about one mile this side of Bear Lake. Take note of activity below. Mr. Gilligan.

8:30 A.M. Half day Jr. hike to Loch Vale. Meet at Glacier Gorge Parking area, about one mile this side of Bear Lake. See above activity. Mr. Razum.

8:00 P.M. Illustrated talk at Moraine Museum. "Along the Highways and Byways of Rocky Mt. National Park." Mr. Heger.

8:00 P.M. Illustrated talk at Grand Lake Lodge. "Over Trail Ridge." Mr. Razum.

8:00 P.M. Illustrated talk at Holzworth Ranch, "Wildlife of Rocky Mt. National Park." Mr. Gilligan.

Wednesday, Aug. 11

8:30 A.M. All day hike to Tyndall and Andrews glacier, via Flattop and Halletts peaks; returning via Loch Vale. Bring lunch and slicker; wear stout foot-gear. Meet at Bear Lake Parking area. Mr. Gilligan.

9:00 A.M. Auto Caravan. About 3 hours. "Understanding the Landscape." Meet at Moraine Museum. Mr. Razum.

8:00 P.M. Illustrated talk at Moraine Museum. "Along the Trails with a Naturalist." Mr. Razum.

Thursday, Aug. 12

8:30 A.M. Half day hike to Cub Lake. Returning via the "Pool." Meet at the end of the Brinwood Road. Mr. Gilligan.

8:30 A.M. Half day hike to Gem Lake. Meet at the turn off on Devils Gulch Road. Mr. Razum.

1:30 P.M. Nature Games and

Demonstrations; Use of Audio-Visual Aids, etc. Ideas for teachers, camp leaders, etc. Meet at Moraine Museum Amphitheater. Mr. Gilligan.

8:00 P.M. Illustrated talk at Moraine Museum. "The Forest Story." Mr. Gilligan.

8:00 P.M. Illustrated talk at Y.M.C.A. "The Better Known Peaks of the Park." Mr. Razum.

8:00 P.M. Illustrated talk at Estes Park Chalets "Over the Divide." Mr. Alberts.

8:00 P.M. Illustrated talk at Daven Haven at Grand Lake. "Your Rocky Mt. National Park." Mr. Heger.

Friday, Aug. 13

8:30 A.M. $\frac{3}{4}$ day hike to Ouzel Falls and Chickadee Lake. Meet at Wild Basin Campground. About 15 miles from Estes Park on Route 7. Turn right at Wild Basin Lodge on gravel road, drive to the campground at the end of road. Mr. Razum.

9:00 A.M. Photographic Caravan. Meet at Moraine Museum. Help will be given on composition, exposure, etc., enroute to good photographic spots along the highways. Mr. Heger.

5:30 P.M. Alpine Caravan. Meet at Moraine Museum. Popular Feature. A drive to above timberline on the tundra. A Nature Walk for alpine flowers—a campfire will be built—bring food appropriate. Group singing and star observation after supper. Dress warmly and bring blankets for a rather cool evening. Mr. Heger.

8:00 P.M. Illustrated talk at Moraine Museum. "Techniques of Nature Photograph." Mr. Gilligan.

8:00 P.M. Illustrated talk at Fall River Lodge. "Glaciers—Molders of the Earth." Mr. Razum.

Saturday, Aug. 14

Nature Sketches. Coast to Coast Radio Broadcast over N. B. C. from KOA, Denver. All children are urged to attend. Topic, "Forest Insect Enemies." Meet in cars at Moraine Museum at 11:00 A.M. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 P.M. over KOA permitting the children to

hear themselves. Mr. Alberts and Mr. Herschler.

8:00 P.M. Special Illustrated Lecture at Moraine Museum. "Death Valley—a Desert National Park." Presented by Mr. Alberts, Park Naturalist, who had been stationed in Death Valley for a number of years.

Sunday, Aug. 15

8:00 P.M. Guest Artist Night at Moraine Museum Amphitheatre. "The Desert and Its Flowers." Presented by Harold D. Roberts of Denver, Colo. Mr. Roberts will show some intimate close ups of the gorgeous desert flowers in Kodachromes.

Other Free Services

Moraine Museum open daily 9:00 A.M. to 5:00 P.M. Glacier talk there daily 3:15 P.M. Self guiding nature trail encircles Bear Lake—plants and rocks labeled. Wear warm clothing for out-door amphitheatre programs. In case of bad weather, program will be held inside.

Each morning hike is about five miles round trip over maintained trails. Return is made to cars by 12:00—12:30 P.M. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if written request is on file; send a postal card to Rocky Mountain National Park, Estes Park, Colorado, to obtain them.

ROCKY MOUNTAIN NATIONAL PARK

Schedule of Free Naturalist Services
August 16 to 22, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Hebert Heger, Jim Gilligan, Albert Razum, Ranger-Naturalists; Helen Wattonville, Museum Attendant.

Monday, August 16

8:30 A.M. Half day hike to Emerald Lake. Meet at Bear Lake Parking Area. Mr. Gilligan.

1:30 P.M. Nature walk around Bear Lake for about one hour. Mr. Gilligan.

8:00 P.M. Illustrated talk at Moraine Museum. Flowers of Rocky Mountain National Park. Mr. Gilligan.

8:00 P.M. Illustrated talk at Y.M.C.A. "Geological Story of the Rockies." Mr. Razum.

Tuesday, August 17

8:30 A.M. Half day hike up Deer Mountain. Meet at Deer Ridge Chalets. Extensive mountain views. Mr. Razum.

8:00 P. M. Guest Artist—Illustrated talk at Moraine Museum on Dinosaur National Monument and other interesting places in Colorado. In colored movies. Mr. Stickler.

8:00 P.M. Illustrated talk at Grand Lake Lodge, "Over Trail Ridge Road." Mr. Razum.

8:00 P.M. Illustrated talk at Phantom Valley Ranch, "Trail Trips Through Rocky Mountain National Park." Mr. Gilligan.

Wednesday, August 18

8:30 A.M. Three-fourths day hike to Sky Pond via Loch Vale. Bring Lunch and slicker. Meet at Glacier Gorge Parking area about one mile below Bear Lake. Mr. Gilligan.

9:00 A.M. Auto Caravan—Understanding the Landscape—Meet at Moraine Museum. About 3 hours. Mr. Razum.

8:00 P. M. Illustrated talk at Moraine Museum, "Early History and Pictures of Rocky Mountain National Park in Lantern Slides." Mr. Alberts.

Thursday, August 19

8:30 A.M. Half day hike to One Thousand Falls. Meet at south side of Endovalley Campground. Mr. Gilligan. (See next activity—the start and finish is planned for both trips.)

8:30 A.M. Half-day Jr. explor-

ation hike. Meet at south side of Endovalley Campground. (See preceding activity.) Mr. Razum.

1:30 P.M. Nature Observation Walk. About 2 hours. Meet at Camp Woods. A leisurely walk. Mr. Gilligan.

8:00 P.M. Illustrated talk at Moraine Museum. "The Better Known Peaks of the Park." Mr. Razum.

8:00 P.M. Illustrated talk at Stanley Hotel, "Trail Ridge and Rocky Mountain National Park." Mr. Gilligan.

8:00 P. M. Illustrated talk at Estes Park Chalets, "Over the Trail Ridge." Mr. Alberts.

8:00 P.M. Illustrated talk at Daven Haven at Grand Lake. "Flowers and Animals of Rocky Mountain National Park." Mr. Heger.

Friday, August 20

8:30 A.M. All day hike to Chasm Lake. Meet at Longs Peak Campground. Drive south on route 7 to Hewes-Kirkwood, turn off on the right, continue on gravel road to the campground. Mr. Razum.

9:00 A.M. Photography Caravan. Meet at Moraine Museum. Help will be given on your photographic problems. A drive to good photographic spots. Mr. Heger.

8:00 P.M. Illustrated talk at Moraine Museum, "Trail Trips Through Rocky Mountain National Park." Mr. Gilligan.

8:00 P.M. Illustrated talk at Aspen Lodge. "Flowers and Animals of Rocky Mountain National Park." Mr. Heger.

Saturday, August 21

NATURE SKETCHES. Coast to Coast Radio Broadcast over NBC from KOA Denver. All children are urged to attend. Topic, "Along the Streams." Meet in cars at Moraine Museum at 11:15 A.M. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 P.M. over KOA permitting the

children to hear themselves. Mr. Alberts and Mr. Heger.

8:00 P.M. Illustrated talk at Moraine Museum. "Your Western National Parks in Kodachromes." Mr. Heger.

Sunday, August 22

8:00 P.M. Guest Artist at Moraine Amphitheatre—Mr. Herb Hollister of Boulder, Colorado. "Mountain Climbing in Mexico," illustrated in colored movies.

OTHER FREE SERVICES

Moraine Museum open daily 9:00 A.M.-5:00 P.M. Glacier talk there daily 3:15 P.M. Selfguiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs. In case of bad weather, program will be held inside.

Each morning hike is about five miles round trip over maintained trails. Return is made to cars by 12:00-12:30 P.M. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if written request is on file; send a postal card to Rocky Mountain National Park, Estes Park, Colorado, to get them.

ROCKY MOUNTAIN NATIONAL PARK

Schedule of Free Naturalist Services

August 23 to 29, 1948

— STAFF —

Edwin C. Alberts, Park Naturalist; J. Herbert Heger, Jim Gilligan, Albert Razum, Ranger-Naturalists; Bill Shubatt, Museum Attendant.

Monday, August 23

8:30 a.m. Half-day hike to Loch Vale. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake. Mr. Razum.

1:30 p. m. Nature Walk around Bear Lake. About one hour over maintained trail. Meet at Bear Lake Parking Area. Mr. Razum.

8:00 p.m. Illustrated talk at Moraine Museum, "The Forest Story." Mr. Gilligan.

8:00 p.m. Illustrated talk at Brinwood Hotel, "Glaciers—Molders of the Earth." Mr. Razum.

Tuesday, August 24

8:30 a. m. Half-day hike to Mills Lake. Meet at Glacier Gorge Parking Area about one mile this side of Bear Lake. Mr. Razum.

8:30 a.m. Half-day hike to Cub Lake. Meet at turn-off of trail about one-half mile beyond Brinwood Hotel on the Brinwood Road. Mr. Gilligan.

1:30 p.m. Leisurely Nature Walk around Bear Lake over maintained trail. About one hour. Mr. Razum.

8:00 p.m. Illustrated talk at Moraine Museum. "Trails Through the Season's in Rocky Mountain National Park." Mr. Herschler.

8:00 p.m. Illustrated talk at Grand Lake Lodge, "Trail Ridge Road and Rocky Mountain National Park." Mr. Gilligan.

8:00 p.m. Illustrated talk at Holzworth Ranch on Grand Lake side of the Park. "Along the Trails with a Naturalist." Mr. Razum.

Wednesday, August 25

9:00 a.m. All day hike to Specimen Mountain. Meet at Poudre Lake at the Continental Divide parking area. Bring lunch and slicker. Mr. Gilligan.

9:00 a.m. Auto Caravan, "Understanding the Landscape." Meet at Moraine Museum. Mr. Razum.

8:00 p.m. Illustrated talk at Moraine Museum, "Along the Trail With a Naturalist." Mr. Razum.

Thursday, August 26

8:30 a.m. Half-day hike to Lake Haiyaha. Meet at Bear Lake parking area. (See activity below.) Mr. Razum.

8:30 a.m. Junior half-day hike for the children to Emerald Lake. Meet at Bear Lake parking area. (See activity above.) Mr. Gilligan.

1:30 p.m. Nature walk at Glacier Basin Campground. About two hours. Meet at Ranger Station in the Campground. Mr. Gilligan.

8:00 p.m. RANGER SHOW—SPECIAL PROGRAM at Moraine Museum, "Life and Work of a Park Ranger." A series of presentations and demonstrations of packing, rescue work, alpine climbing, and ranger activities in general. Presented by members of the park ranger staff and directed by Chief Ranger Barton Herschler.

8:00 p.m. Illustrated talk at Estes Park Chalets. "Trail Ridge." Mr. Razum.

8:00 p.m. Illustrated talk at Y.M.C.A. Conference Grounds, "Flowers of Rocky Mountain National Park." Mr. Gilligan.

8:00 p.m. Illustrated talk at Daven Haven at Grand Lake, "Colored Movies of the Rocky Mountain National Park." Mr. Heger.

Friday, August 27

8:30 a.m. Three-fourths day hike from Bear Lake to Odessa and Fern Lakes to the Brinwood Parking Area at the end of the Brinwood Road. Make arrangements to be met at the end of the hike about one mile west of the Brinwood Hotel about 4:30 p.m. Bring slicker and lunch. Meet at Bear Lake Parking Area. Mr. Razum.

9:00 a.m. Photography Caravan. "A trip up the OLD FALL RIVER ROAD" stopping at good photographic points. Help will be given on exposure, composition, etc. Meet at Moraine Museum. Mr. Heger.

8:00 p.m. Illustrated talk at Moraine Museum, "Wildlife in Rocky Mountain National Park." Mr. Gilligan.

8:00 p.m. Illustrated talk at Fall River Lodge, "Flowers and Animals of Rocky Mountain National Park." Mr. Heger.

Saturday, August 28

NATURE SKETCHES. Coast to Coast radio Broadcast over NBC

from KOA, Denver. All children are urged to attend. Topic, "Man and the Mountains." Meet in cars at Moraine Museum at 11:00 a. m. to drive to point of broadcast at 12:00 noon. Program will be released at 1:00 p. m. over KOA permitting the children to hear themselves. Mr. Alberts and Mr. Heger.

8:00 p. m. Illustrated talk at Moraine Museum. "Colored Movies of Rocky Mountain National Park." Featuring slow motion of Hummingbird feeding its young. Mr. Heger.

Sunday, August 29

GUEST ARTIST NIGHT. Lois and Ted Mathews of Estes Park. "Winter in the Rockies and the East Face." An excellent series of scenes covering a wide variety of landscapes. Program will be held in Moraine Amphitheatre if weather permits; otherwise in Moraine Museum.

OTHER FREE SERVICES

Moraine Museum open daily 9:00 A.M.-5:00 P.M. Glacier talk there daily 3:15 P.M. Selfguiding nature trail encircles Bear Lake—plants and rocks labeled.

Wear warm clothing for outdoor amphitheatre programs. In case of bad weather, program will be held inside.

Each morning hike is about five miles round trip over maintained trails. Return is made to cars by 12:00-12:30 P.M. Wear stout shoes, etc.

These programs are issued weekly during the season; they are available at the Park Office and Moraine Museum. They can be mailed to you only if written request is on file; send a postal card to Rocky Mountain National Park, Estes Park, Colorado, to get them.

ROCKY MOUNTAIN NATIONAL PARK

SCHEDULE OF FREE NATURALIST SERVICES

August 30 to September 5, 1948

STAFF: Edwin C. Alberts, Park Naturalist; J. Herbert Heger. Jim Gilligan, Albert Razum, Ranger-Naturalists; Bill Shubatt, Museum Attendant.

Monday, August 30

8:30 a. m. Half-day hike to Loch Vale. Meet at Glacier gorge parking area. Mr. Razum.

1:30 p. m. Nature walk around Bear Lake. About one hour over maintained trail. Meet at Bear Lake parking area. Mr. Razum.

8:00 p. m. Illustrated talk at Moraine Museum, "Life With a Ranger." Mr. Gilligan.

8:00 p. m. Illustrated talk at Y.M.C.A. Conference Grounds, "Geological Story of the Rockies." Mr. Razum.

Tuesday, August 31

8:30 a. m. Half-day hike to Cub Lake returning via "Pool." Meet at turn-off of trail about one-half mile beyond Brinwood Hotel on the Brinwood Road. (See activity below.) Mr. Gilligan.

8:30 a. m. Half-day Junior exploration hike up the Brinwood Gulch. Meet at the same place as above hike. Mr. Razum.

8:00 p. m. Illustrated talk at Moraine Museum, "Glaciers—Molders of the Earth." Mr. Razum.

8:00 p. m. Illustrated talk at Grand Lake Lodge, "Trail Ridge." Mr. Alberts.

8:00 p. m. Illustrated talk at Phantom Valley Ranch on the Grand Lake side, "Seeing the Park with a Ranger." Mr. Hackett.

Wednesday, September 1

7:00 a. m. Glacier Measuring Party. This trip will be up Flat-top Mountain to Tyndall Glacier, to Halletts Peak, then to Andrews Glacier, coming down over Andrews to Loch Vale, and ending at Glacier Gorge parking area about a mile below Bear Lake. Meet at Bear Lake parking area. This is not an easy trip. Wear stout footwear, bring slicker and lunch. Normally this trip is made without tourists, but it is felt that many would like to see this done. Messrs. Gilligan, Heger and Razum.

8:00 p. m. Illustrated talk at

Moraine Museum, "Scenic Spots in the West with a Color Camera." Mr. Alberts.

Thursday, September 2

8:00 p. m. Illustrated talk at Moraine Museum, "Along the Trail With a Naturalist." Mr. Razum.

8:00 p. m. Illustrated talk at Daven Haven on Grand Lake side. "Wildlife in the Park." Mr. Gilligan.

8:00 p. m. Illustrated talk at Estes Park Chalets, "Over the Trail Ridge." Mr. Alberts.

8:00 p. m. Illustrated talk at Stanley Hotel, "Seeing the Park With a Ranger." Mr. Hackett.

Friday, September 3

8:00 p. m. Illustrated talk at Moraine Museum, "Crater Lake in Color." Mr. Razum.

Saturday, September 4

NATURE SKETCHES Broadcast. Coast-to-Coast Radio Broadcast over NBC from KOA Denver. All children are urged to attend. Topic, "Camping out in the Rockies." Meet at Glacier Basin Campground at 11:30 a. m. Broadcast will be held at the campground at 12:00 noon. Program will be released over KOA at 1:00 p. m., permitting the children to hear themselves. Mr. Alberts.

8:00 p. m. Illustrated talk at Moraine Museum, "Cowboys and Indians in Lantern Slides." Mr. Alberts.

Sunday, September 5

GUEST ARTIST NIGHT—"A Journey Through Switzerland" by Mr. Richard Matthews. A comparison of Switzerland's beauty with our own in colored movies. At the Moraine Amphitheatre.

THIS IS THE LAST OF PRINTED SCHEDULES FOR 1948. However, Moraine Museum will be open from 10:00 a. m. to 5:00 p. m. daily. At 3:15 p. m., a Glacier Talk will be held at the Museum. In addition, a lecture at 8:00 p. m. will be held at the Museum on some phase of

the park or natural history every evening until September 15.

NATURE SKETCHES will be held on September 11 and 18. Time and place will be announced in the Estes Park TRAIL.

On September 12 a guest artist will be at Moraine Museum. Consult the Estes Park TRAIL for details.

Wear warm clothing for outdoor amphitheatre programs. In case of bad weather, program will be held inside.

A self-guiding nature trail encircles Bear Lake—plants and rocks labeled.

May you all have a safe journey home and may you enjoy the long winter evenings through your reminiscences of the summer.

THE STAFF

UNIVERSITY OF MICHIGAN



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THE UNIVERSITY OF MICHIGAN

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TO RENEW PHONE 764-1494

DATE DUE

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