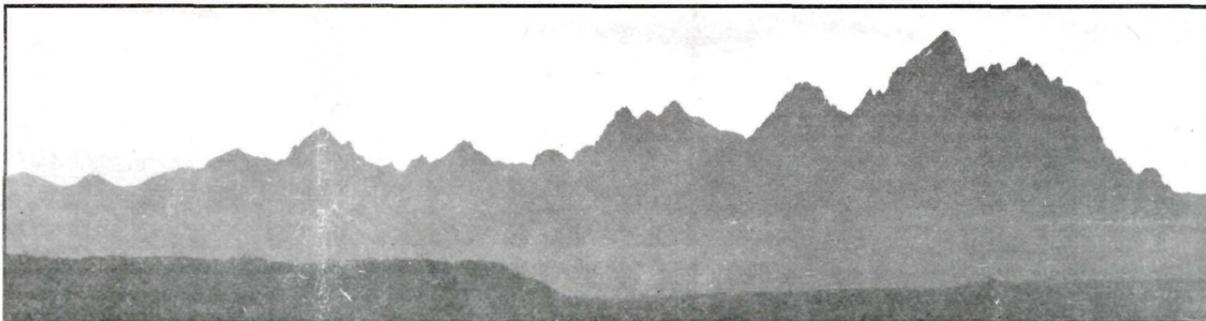


TEEWINOT

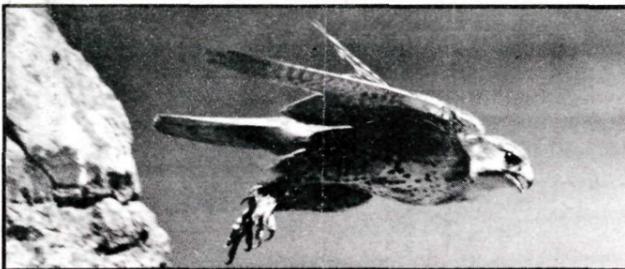
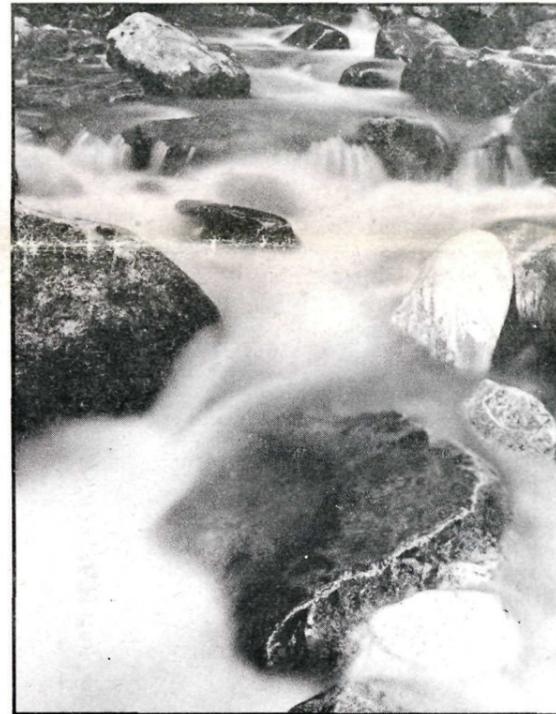
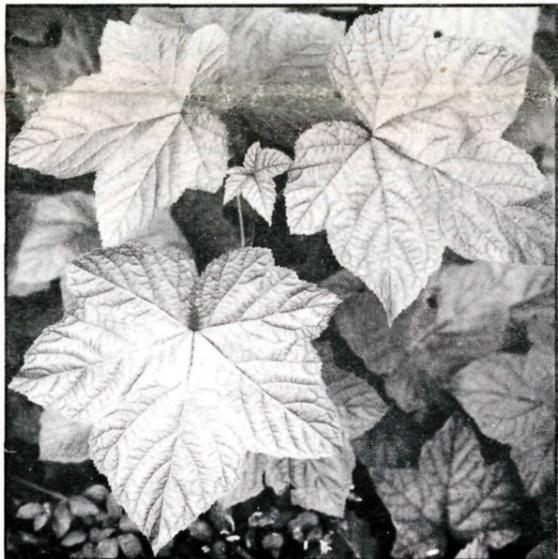
The GRAND TETON NATIONAL PARK Newspaper

Volume 5, Number 2 June-July, 1978



What Ansel Adams calls "the noble gestures of the natural world" have no better protection than the national park idea, which recognizes that a park is for people, but especially for the people who like what the park is, who are content to wonder at what has always been beautiful and leave it that way.

David Brower
September 9, 1968



Welcome To Grand Teton National Park!

Welcome to Grand Teton National Park, one of the nation's most spectacular natural playgrounds.

Here you'll find gorgeous scenery, outstanding displays of wildlife and wildflowers, free-flowing waters, and an abundance of outdoor recreations.

What is there to do in Grand Teton National Park? Enjoy the resource in countless different ways.

If you're travelling by car, the Park's 167 miles of paved roads will take you past some of the most spectacular vistas in North America - and the world. Vehicle pull-outs have been constructed at scenic vantage points throughout the Park, offering many opportunities for outstanding photography and breathtaking views.

We really recommend, however, that you get out of your car for at least a portion of your visit and experience the Park at a slower pace that affords time for the appreciation of the tiny details that make this area so special.

If you like to hike, you'll find no shortage of things to do and places to go in Grand Teton National Park. Over 200 miles of trails will take you on easy jaunts to points of interest on the valley floor or on more vigorous adventures high into the Teton backcountry. Many of the easier trails are discussed in the "Do It Yourself" section of the TEEWINOT and a full listing of naturalist-led hikes is provided on the center two pages of this issue. An additional discussion of maps, trail conditions, and regulations will be found in the section on "Hiking."

Hiking is one of the most enjoyable ways to experience the Park, but it's by no means the only way to slow down the pace and get into areas inaccessible by auto. The private concessioners in Grand Teton National Park (see the back page of the TEEWINOT for a complete listing) offer many others: horses, bicycles, canoes, and motorboats may all be rented for further adventure.

One of the most popular ways to see the area is to take one of the scenic float trips down the Snake River offered by the concessioners listed on the back page. The river is beautiful any time of day, but early morning and late afternoon trips are especially popular for their opportunities for wildlife observation.

Indeed, wildlife observation is good anywhere at those times of the day and is one of the most enjoyable experiences afforded by a visit to Grand Teton National Park. Here you'll find moose, elk, deer, bison, pronghorn antelope, porcupines, beavers, marmots - altogether more than 50 species of mammals, as well as bald eagles, osprey, hawks, trumpeter swans, sandhill cranes and over 200 species of birds.

Checklists of Grand Teton's birds and animals are available at the visitor centers, along with publications designed to make identification easier.

At the visitor centers, you'll also find two outstanding exhibits: the David T. Vernon Indian Arts

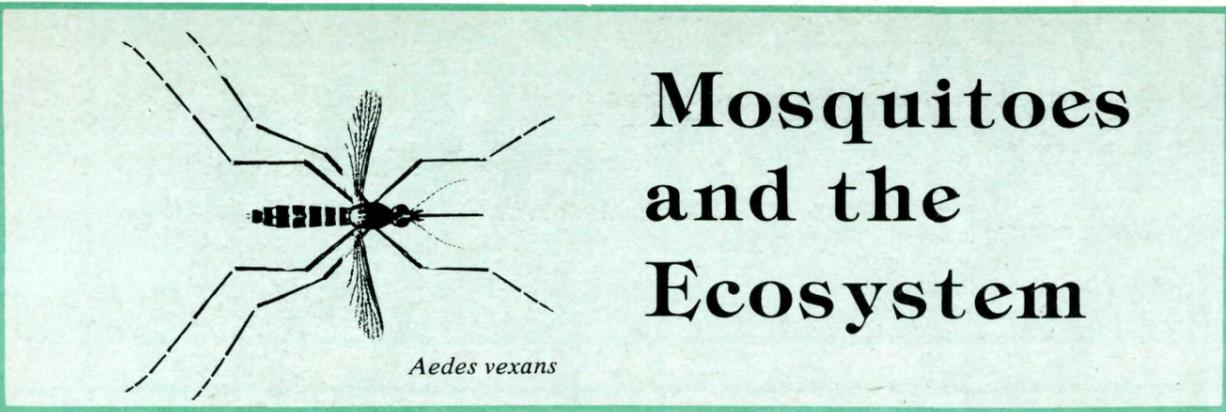
Collection at Colter Bay and the Fur Trade Museum at Moose.

History has not been neglected elsewhere in the Park either. The Cunningham Cabin on the main highway offers an insight into the early homesteading history of Jackson Hole, as does the Menor-Noble Historic District near Moose. There, too, you'll find interpretive materials on the history of the Park and may even encounter an anachronistic fur trapper who'll discuss the Mountain Man era as part of the Park's "living history" program.

The arts also occupy an important place in a summer visit to Grand Teton National Park. There are demonstrations of traditional Native American arts and crafts in the Colter Bay Visitor Center, classes on Indian lore for kids, and two popular adult arts activities: the "Artist in the Environment" program and the regular weekly "Sketch Walks" offered by Park Fine Arts Specialist Greg McHuron. Further information on these programs will be found inside this issue of the TEEWINOT.

Whether you're looking for structured activities or a simple chance to relax and unwind in a beautiful setting, we think you'll find what you're looking for in Grand Teton National Park. Enjoy your stay, but follow the backpackers' motto: take only pictures, leave only footprints.

There will be many visitors to follow you. This summer . . . and in generations to come.



Mosquitoes and the Ecosystem

Looking for a challenge?

Try finding something nice to say about mosquitoes (other than "they're gone").

From the time the snow recedes in the middle of May to about the second week in August, most Jackson Hole visitors have no trouble finding something to say about mosquitoes.

Very little of it is nice.

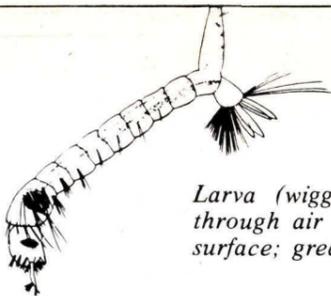
Still, if dragonflies could talk, it's a pretty good bet that they'd have something nice to say about mosquitoes. So would damselflies, and dace, a species of minnow that likes mosquitoes so well it's been introduced as a mosquito control measure in certain parts of the country. In Jackson Hole, swallows, swifts, flycatchers, hawks and other species of birds that capture their food on the wing would also have nice things to say about mosquitoes. So would the bats.

Which will give you something nice to say about them.

From a human standpoint, perhaps the nicest thing that can be said about mosquitoes is that they make an interesting lesson in the principles of ecology and evolution.

The reason mosquitoes and insects in general are so numerous is that they have a number of evolutionary advantages, beginning with an adaptability to different climates and conditions that rivals that of human beings.

Their small size, coupled with their diverse appetites, enables them to escape the more rigorous competition for food that characterizes larger species with more narrowly defined appetites. Large numbers may comfortably be accommodated in a relatively small ecological niche.



Larva (wiggler) breathing through air tube at water surface; greatly enlarged.

They're adaptable, too, to virtually any water conditions, from salt marshes and stagnant pools to irrigation ditches and cattle troughs to the tiny drops of water trapped in the leaves of vegetation. Their aquatic larval and pupal stages—indeed, the complete metamorphosis of many insect species—are a great

evolutionary advantage, too. This means that the immature members of the species aren't competing with the adults for the same food sources and aren't susceptible to the same predators.

Finally, their ability to fly is another advantage, enabling them to move easily from an area of unfavorable conditions to one more suitable.

With all those evolutionary advantages, it's no wonder mosquitoes are so tough to control!

By the same token, given their nuisance value and public health hazards, it's no wonder man has tried.

Public health was the initial reason for the massive mosquito control programs conducted earlier in this century by the United States and the United Nations. Malaria, yellow fever, and encephalitis are three of the more serious human diseases spread by mosquitoes. Mosquitoes are also implicated in the spread of a number of animal diseases.

In the spread of these diseases, mosquitoes act as vectors, or carriers, of the microorganisms responsible for these diseases. In most mosquito species, the adult female must have a blood meal from a warm-blooded animal before she can lay her eggs. (Males, on the other hand, usually survive on plant nectar). If one of the animals the female bites is infected with disease, she will carry the disease organism to the next animal and an epidemic is potentially on the way.

To bring the situation under control, a multi-lateral effort is required. During and after World War II, DDT was introduced to kill the adult mosquitoes at the same time that bodies of standing water were drained to eliminate or reduce the mosquito breeding grounds.

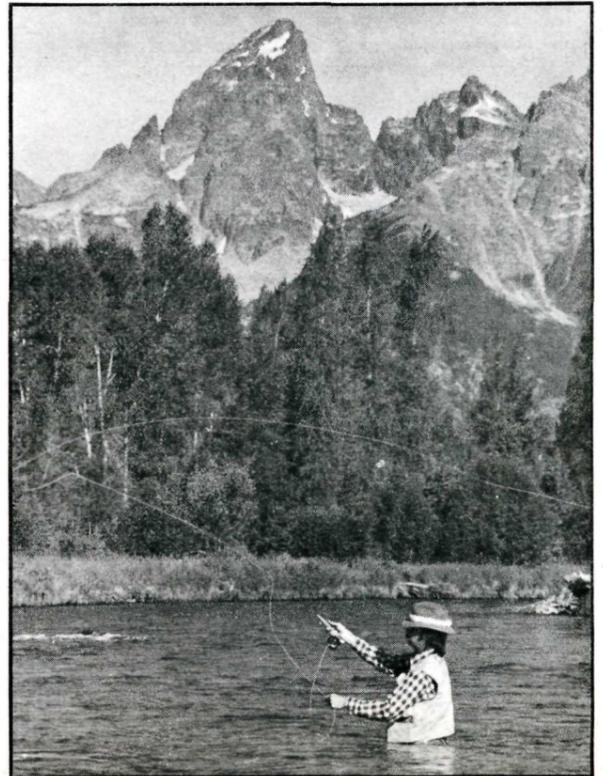
You don't hear much about malaria today, largely as a result of the success of these efforts. You still, however, hear about the side effects of these efforts in discussions of the dangers of DDT and other chemical pesticides.

The present controversy dates back to the 1962 publication of Rachel Carson's *Silent Spring*, a book that is often credited as the impetus behind the environmental movement. It's not hard to see why. Here, in a single case—mosquito control—are to be found the major lessons of the science of ecology.

Simply stated, ecology is the study of the relationships of living things with each other and with their environment. Implicit in the science of ecology is the notion that a single action undertaken for a single purpose—for example, the application of a chemical pesticide to control mosquitoes—will have repercussions elsewhere in the natural world, not only through food chains but also through the shared airsheds and watersheds.

In the case of chemical insecticides, human beings may spray an area to eliminate a particular pest, mosquitoes, but there is no guarantee that other species will not be affected. If the chemical is sprayed on water, for example, it may be ingested by a particular species of insect to which it is not toxic, or it may be absorbed by osmosis by a particular species of fish. Exposures to small doses may not be fatal to certain species at particular levels in the food chain, but many of these chemicals tend to concentrate in certain types of tissues, particularly fatty tissues, and as they are concentrated, they are "magnified" in impact. As a consequence, the impacts of these chemicals may be felt more keenly at the top of a food chain than they are further down.

By way of example, a caddisfly may absorb or ingest a mosquito pesticide and be relatively unharmed. A trout may eat the caddisfly—and numerous other caddisflies—and concentrate the chemical in its tissues. A bald eagle may, in turn, eat the trout—and many other trout—and further concentrate the chemical, possibly this time at a level that may prove harmful.



Fly fishing for the elusive trout at Schwabacher's Landing.

In Grand Teton National Park and in the other parks of the National Park System, the application of chemical pesticides is not permitted. There is a philosophical commitment to meeting the natural world on its own terms—mosquitoes and all—and allowing natural ecosystems to function relatively unaltered by the presence of man. This philosophy is one of the things responsible for making National Parks special and for permitting the continuing existence of species that, because of man's interference, have largely disappeared elsewhere.

For better or for worse, this protection extends to mosquitoes. Their aggravation two months a year is the price we pay for bald eagles and trout fishing you'll find few other places.

Hiking

Hiking is one of the most rewarding ways to experience the Tetons. Over 200 miles of hiking trails of varying lengths and degrees of difficulty are available to the Grand Teton National Park visitor.

A number of the shorter, self-guiding trails are discussed in the "Do It Yourself" section of the TEEWINOT. In general, these trails may be covered in an easy hour-and-a-half to three-hour hike. Most are located at lower elevations, feature relatively easy terrain, and should be free of snow.

Most trails will be snow-free up to 7500 feet by June 15, gradually clearing at the higher elevations through July. Early indications are that some of the higher mountain passes (Hurricane Pass and Paintbrush Divide, for example) may not melt completely all summer.

Hikers planning to travel to higher elevations are advised to inquire about trail conditions at one of the visitor centers or ranger stations before setting out on their trips. For crossing the higher passes, hikers should carry an ice axe and be familiar with its use.

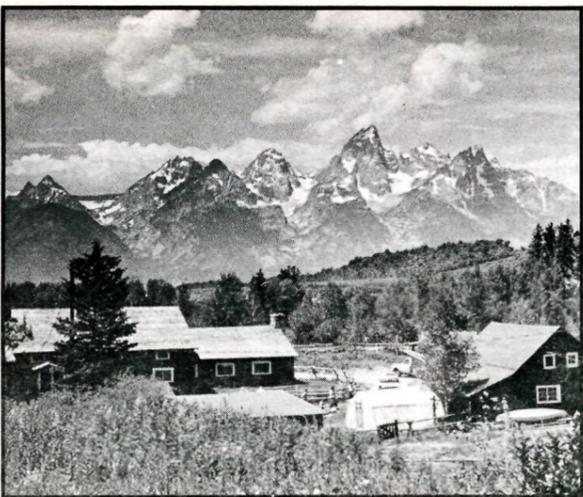
Surface water in Grand Teton National Park may be contaminated. Hikers and campers are advised to treat such water before consuming it.

Overnight backcountry users are reminded that they must obtain a no-fee backcountry use permit prior to beginning their trips. Details of the backcountry use permit system will be found in the "Backcountry Camping" section of the "Camping" article in this issue.

Maps, permits, and further information on the Park's trail system are available at the Jenny Lake Ranger Station or the Moose or Colter Bay Visitor Centers.



Hikers take a refreshing break on the shore of Leigh Lake.



Environmental Center facilities near Ditch Creek.

Outdoor Classroom 1978

The Grand Teton Environmental Education Center, operated by the Teton Science School, offers a series of seminars each summer for individuals who wish to explore particular aspects of the Grand Teton ecosystem in greater depth.

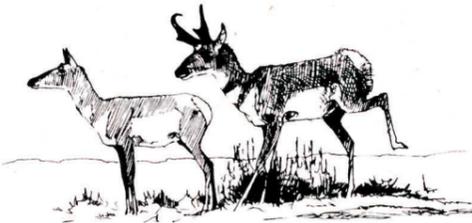
The emphasis of the seminars is on direct observation and interaction between students and instructors. Instructors include college professors recognized in their fields, Park administrators, locally and nationally recognized experts, and professional photographers.

The school is located on Ditch Creek in the southeastern portion of the Park near the town of Kelly and the Gros Ventre Campground. From this base, students may travel high into the Teton backcountry, float the Snake River, and go wherever in Grand Teton National Park their particular investigations may take them.

Registration and further details may be obtained from the Teton Science School, Box 68, Kelly, Wyoming 83011, (307) 733-4765.

Seminars offered this summer will include:

- June 19-23 Geology of Jackson Hole
Dr. David Love
- June 29-July 3 Earthquakes and Volcanoes
Dr. Robert Smith
- July 5-9 Forest Practices
Dr. Richard Behan
- July 7-11 Outdoor Photography
Ed Riddell
- July 11-15 Vascular Flora of Grand Teton
Dr. Arthur Holmgren
- July 17-21 Aquatic Ecology of Grand Teton National Park
Dr. George Baxter
- July 22-26 Terrestrial Insects of Jackson Hole
Dr. Steve Clement
- July 28-Aug. 1 Alpine Flora of the Teton Range
Dr. Jack Major
- July 28-Aug. 1 The Wilderness Idea in America
Dr. Roderick Nash
- July 31-Aug. 4 Backpacking and Techniques of Wilderness Living
Sandy Pew
- Aug. 2-6 Field Archeology of Jackson Hole
Dr. Gary Wright
- Aug. 7-11 Fossils of the Green River Formation, Wyoming
Wallace Ulrich
- Aug. 14-18 Field Identification of Mushrooms
Dr. Kent McKnight



- Aug. 22-26 Animal Behavior
Dr. Allen Stokes
- Sept. 28-Oct. 2 Outdoor Photography
Ed Riddell

Indian Crafts at Colter Bay



Native American woman doing beadwork.

The Colter Bay Visitor Center houses the David T. Vernon Indian Arts Collection, an outstanding collection of traditional Native American arts and crafts handsomely displayed in a most unusual manner.

In addition to viewing the objects on display, visitors have an opportunity to gain insights into their creation by watching the demonstrations on the lower level of the museum during the late morning and early afternoon.

Native American craftsmen participating in this program work in traditional media and explain their work to visitors as they go along.

Craftsmen participating in this year's program will be:

- June 6-9 Julia Parker, basket weaver
- June 22-26 Matthew Two Bulls, Sioux singer
- June 26-30 Cahokia Mounds Indian Dancers
- July 4-6 Gros Ventre Dancers
- July 20-26 Mabel McKay, Pomo basket weaver
- Aug. 10-14 Shalah Rowlan, ribbon applique
- Aug. 17-21 Emma Dann, Shoshone bead worker
- Aug. 24-28 New Holies, Sioux quill work

Artists In The Environment

This summer, Grand Teton National Park, in cooperation with eight widely known Jackson Hole area artists, will once again offer its popular "Artist in the Environment" program, a unique opportunity for Park visitors to enrich their appreciation of the natural setting by viewing it through the artists' eyes.

Participants will assemble at either the Moose or Colter Bay Visitor Centers (inquire at either to find out specific time and place) where they will be met by Greg McHuron, an artist who hosts the program for the Park. McHuron will then lead the group on foot or by car to the spot where the artist will be working. Car-pooling is encouraged.

The program is interpretive, rather than instructional. Sketch pads and cameras are welcome, but visitors are requested not to bring paints and easels or to expect special instruction from the artist.

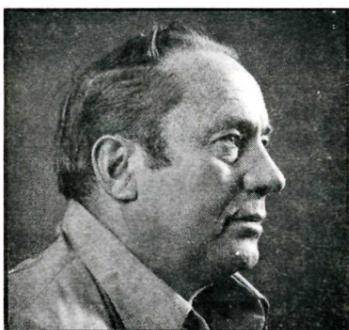
Dates and artists will be as follows:

JUNE 30: CONRAD SCHWIERING, the artist who helped the Park plan the program, an impressionist who grew up in Wyoming, left the state to study in New York under Charles S. Chapman and others at the Art Students' League and Grand Central Art School, and returned 24 years ago to settle in Jackson Hole and paint the West.



CONRAD SCHWIERING

JULY 7: DON AND DOUG RICKS, a father-son team from Rexburg, Idaho, where father Don Ricks operates his own Ricks Art School. Doug makes his home on the Idaho side of the Tetons, overlooking the Teton Basin and offering a different view of the familiar Teton Range.

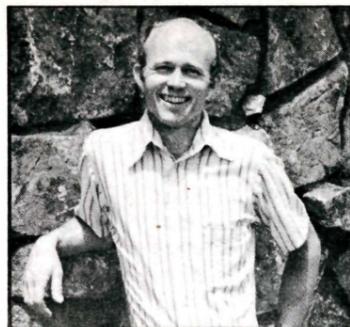


DON RICKS

JULY 14: JOANNE HENNES, a realistic painter who works in oils, favors the mountains as her subject matter and works in styles she developed during her training in native Illinois and in Paris, where she also studied.

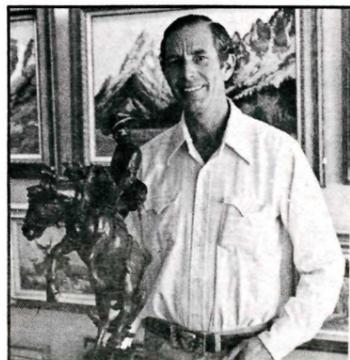


JOANNE HENNES



JIM WILCOX

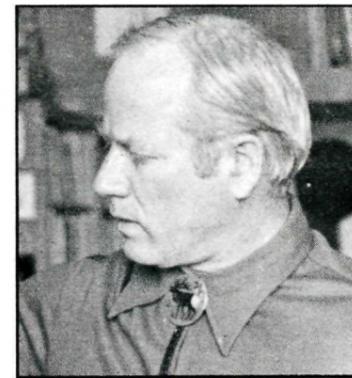
JULY 28: MEL FILLERUP, a native of Wyoming with a degree in law, who has turned his avocation of drawing and painting into a full-time job, following study with Conrad Schwiering, Paul Bransom, Bob Meyers, and the Art Students League in New York.



BILL FREEMAN

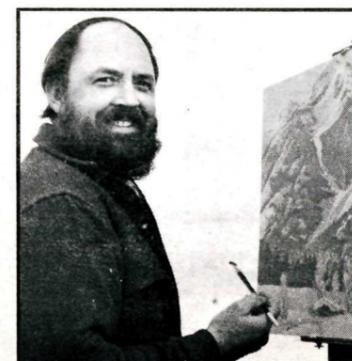
AUGUST 11: GREG McHURON, in his fifth year as host for the program and his first year as a featured artist, works in watercolors, oils, pencil and pen and ink to capture landscapes, wildlife, and particular moments in time.

JULY 21: JIM WILCOX, a Utah native and graduate of Brigham Young University, who now makes his home in Jackson Hole, drawn to the area by the magnetism of the mountains and their changing moods, the subject of many of his paintings.



MEL FILLERUP

AUGUST 4: BILL FREEMAN, a native of North Carolina who spent his youth in Texas and continued further West to work as a wrangler, packer, hunting guide, and forest firefighter, beginning his art career doing illustrations for Game and Fish publications, and eventually working full-time on his painting in Jackson Hole and Scottsdale, Arizona.



GREG McHURON

Sketch Walks

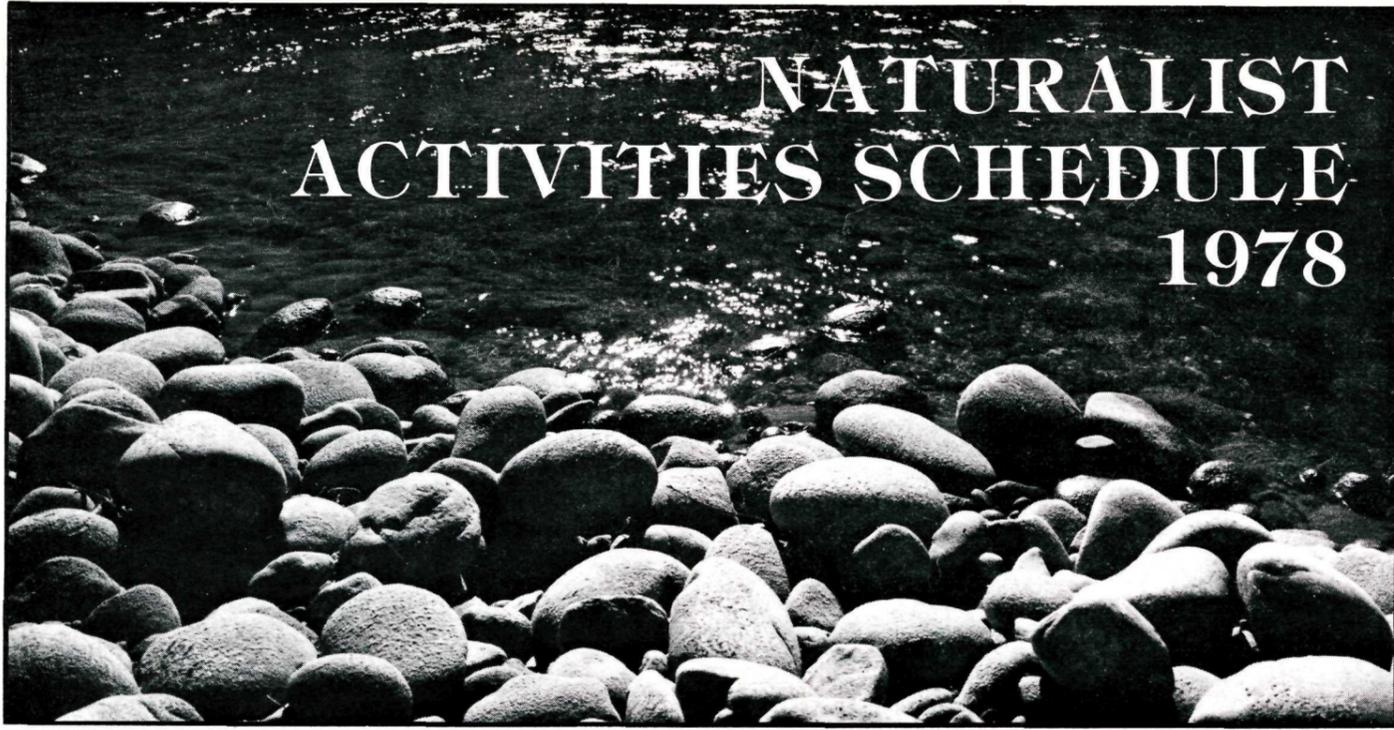
In addition to the "Artist in the Environment" program offered on Fridays, Greg McHuron will lead a series of Sketch Walks each Friday, beginning June 30.

These walks, open to persons of all art skill levels, are designed to give budding artists a chance to sketch along with a professional and gain some of his insights into the Teton landscape.

The Sketch Walks generally last about three hours and meet at the same Visitor Center as the "Artist in the Environment" program for that week. Inquire at the Moose or Colter Bay Visitor Centers for time and place.



NATURALIST ACTIVITIES SCHEDULE 1978



The Naturalist Program is designed to give the visitor a better understanding and appreciation of the Park's features. All services, museums, and exhibits are free of charge. Everyone is invited to participate.

PROGRAM TOPICS WILL VARY EARLY IN THE SEASON. Check at a visitor center for starting dates in June and for special programs.

Moose & Gros Ventre Area

Things To Do

SUNDAYS

- 8:30 a.m. Morning Photo Walk
- 10:00 a.m. Menor's Ferry Stroll
- 1:00 p.m. Taggart and Bradley Lakes Walk
- 2:00 p.m. Menor's Ferry Stroll
- 7:30 p.m. Gros Ventre Twilight Walk
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Astronomy

MONDAYS

- 10:00 a.m. Menor's Ferry Stroll
- 1:30 p.m. Junior Ranger Program
RESERVATIONS REQUIRED
- 2:00 p.m. Menor's Ferry Stroll
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Wildlife

TUESDAYS

- 10:00 a.m. Menor's Ferry Stroll
- 11:00 a.m. Your Forecast
- 1:00 p.m. Taggart and Bradley Lakes Walk
- 2:00 p.m. Menor's Ferry Stroll
- 3:00 p.m. Your Forecast
- 7:30 p.m. Gros Ventre Twilight Walk
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Early Days in Yellowstone and Grand Teton

WEDNESDAYS

- 10:00 a.m. Menor's Ferry Stroll
- 1:30 p.m. Junior Ranger Program
RESERVATIONS REQUIRED
- 2:00 p.m. Menor's Ferry Stroll
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Land Above The Trees

THURSDAYS

- 8:00 a.m. All Day Hike
RESERVATIONS REQUIRED
- 10:00 a.m. Menor's Ferry Stroll
- 1:00 p.m. Taggart and Bradley Lakes Walk
- 2:00 p.m. Menor's Ferry Stroll
- 7:30 p.m. Gros Ventre Twilight Walk
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Hiking Teton Trails

FRIDAYS

- 10:00 a.m. Menor's Ferry Stroll
- 1:30 p.m. Junior Ranger Program
RESERVATIONS REQUIRED
- 2:00 p.m. Menor's Ferry Stroll
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Teton's Seasons

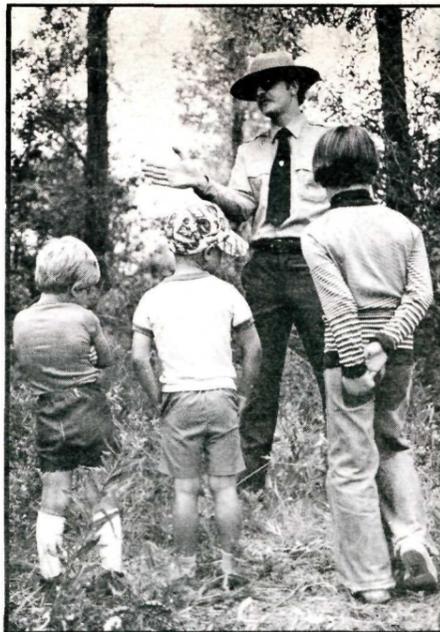
SATURDAYS

- 6:00 a.m. Early Bird Walk
- 8:00 a.m. All Day Hike
RESERVATIONS REQUIRED
- 9:00 a.m. Golden Age Rendezvous
- 10:00 a.m. Menor's Ferry Stroll
- 2:00 p.m. Menor's Ferry Stroll
- 7:30 p.m. Gros Ventre Twilight Walk
- 9:30 p.m. Evening Slide Program. Gros Ventre Amphitheatre. Topic: Wildlife

Description of Activities

ALL DAY HIKE - The all day hikes are rated as moderately difficult as they do cover nearly 10 miles of mountain trails. You should bring a lunch, water bottle, sturdy boots, and rain gear. Plan on a return time of 5:00 p.m. **RESERVATIONS REQUIRED:** limited to 15 participants. Sign up at the Moose Visitor Center or call 733-2880 or 543-2851. Thursdays - Amphitheatre Lake. Saturdays - Garnet Canyon.

EARLY BIRD WALK - All early risers and bird enthusiasts meet at the Moose Visitor Center for a 2-hour walk to view area birdlife and early morning light on the Teton Range.



Junior Rangers in action

EVENING SLIDE PROGRAMS - Forty-five minute, illustrated programs on some of the special aspects of Grand Teton National Park, presented in the campground amphitheatre.

GOLDEN AGE RENDEZVOUS - Rendezvous at sites rich in history, geology, flora, and fauna for a 2-hour stroll. Check at the visitor centers for meeting place and destination. (Families welcome.)

GROS VENTRE TWILIGHT WALK - Meet at the campground amphitheatre for a leisurely hour walk along the Gros Ventre River to look for signs of wildlife.

JUNIOR RANGER PROGRAM - For children from 7 to 11 years of age. Meet at the Jr. Ranger Clubhouse. An interpretive specialist helps children understand their national park through indoor and outdoor activities.

RESERVATIONS REQUIRED: limited to 20 children. Make reservations a day in advance at the Moose Visitor Center or call 733-2880 or 543-2851.

MENOR'S FERRY STROLL - Meet in front of the Moose Visitor Center. 1/2-mile, 45-minute walk along the Snake River to Menor's Ferry. Plan to stay awhile and explore this interesting historic district.

MORNING PHOTO WALK - Meet at the Cottonwood Creek Picnic Area. This walk is led by a professional photographer/naturalist who can give you many tips on photographing both the immensity of

MORNING PHOTO WALK [cont.]

mountain scenery and the tiny detail of a mountain wildflower. Be sure to bring your camera gear. Everyone welcome from the novice photographer to the expert.

TAGGART AND BRADLEY LAKES WALK - Meet at the Taggart Lake Trail Parking Area for a 5-mile, 4-hour loop walk to picturesque lakes with exceptional views of the Teton Range. Rated: moderately difficult.

YOUR FORECAST - A look at weather in the Rocky Mountain West. Meet at the Moose Visitor Center for a 30-minute program on weather forecasting and trends.

Jenny Lake & Signal Mountain Area

Things To Do

SUNDAYS

- 8:00 a.m. Inspiration Point Walk
- 4:00 p.m. Pioneer Wildlife Hike
- 8:00 p.m. Evening Campfire Program. Jenny Lake Campfire Circle. Topic: Wildlife
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Wildflowers

MONDAYS

- 8:00 a.m. Broken Falls Hike
- 1:30 p.m. Orienteering
- 5:30 p.m. Hidden Falls Twilight Hike
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Fur Trapper

TUESDAYS

- 8:00 a.m. Inspiration Point Walk
- 8:00 p.m. Evening Campfire Program. Jenny Lake Campfire Circle. Topic: Backpacking: New Places New Ideas
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Alpine Tundra

WEDNESDAYS

- 8:00 a.m. Inspiration Point Walk
- 7:30 p.m. Twilight Walk
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Early Days in Yellowstone and Grand Teton

THURSDAYS

- 8:00 a.m. Inspiration Point Walk
- 8:30 a.m. Morning Photo Walk
- 8:00 p.m. Evening Campfire Program. Jenny Lake Campfire Circle. Topic: Fur Trapper
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: The Camera's Eye

FRIDAYS

- 8:00 a.m. Geo-Eco Hike
- 7:30 p.m. Twilight Walk
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Teton's Geologic Story

SATURDAYS

- 8:00 a.m. Inspiration Point Walk
- 8:30 p.m. Sunset Photography
- 9:30 p.m. Evening Campfire Program. Jenny Lake Campfire Circle. Topic: Astronomy
- 9:30 p.m. Evening Slide Program. Signal Mountain Amphitheatre. Topic: Man in the Tetons

Description of Activities

BROKEN FALLS HIKE - Meet in the Lupine Meadow Parking Area. This 4-hour trip takes you up the side of Mt. Teewinot through meadows to a beautiful waterfall. Rated: moderately difficult.



EVENING CAMPFIRE PROGRAM - Join a naturalist around the campfire and explore Grand Teton through demonstration techniques. The naturalist welcomes any questions you might have and will do his/her best to answer them for you.

EVENING SLIDE PROGRAM - Forty-five minute, illustrated programs on some of the special aspects of Grand Teton National Park, presented in the campground amphitheatre.

GEO-ECO-HIKE - Meet at the String Lake Picnic Area. Destinations will alternate between Cascade Canyon and Trapper Lake on a hike that combines geology with the other aspects of the Teton environment. Be sure to bring sturdy boots, rain gear, water bottle, and lunch. Return time of 3 p.m. Length: 8 miles.

HIDDEN FALLS TWILIGHT HIKE - Meet at the East Shore Boat Dock on Jenny Lake. One-way boat trip across the lake, \$1.25 adults; 75 cents 7-13. Hike to the Hidden Falls area, then around the lake to the Moose Ponds to look and listen for wildlife. Be sure to bring insect repellent, and a lunch. Return time approximately 9 p.m. Length: 5 miles.

INSPIRATION POINT WALK - Meet in front of the Jenny Lake Ranger Station. Take the boat across Jenny Lake then hike to Hidden Falls and Inspiration Point for a round trip of 2.2 miles. Round trip boat fares: \$2.00 for adults; \$1.00 ages 7-13. Rated: moderately difficult.

MORNING PHOTO WALK - Meet at the String Lake Parking Area. This walk is led by a professional photographer/naturalist who can give you many tips on photographing both the immensity of mountain scenery and the tiny detail of a mountain wildflower. Be sure to bring your camera gear. Everyone welcome from the novice photographer to the expert.

ORIENTEERING - Meet at the Glacier Gulch Scenic Turnout, 4.5 miles north of Moose on the Teton Park Road. This afternoon program teaches you the use of map and compass and then sends you out on a short orienteering course so that you can practice what you've learned. Bring your own compass or borrow from the Ranger who will have some extras. Rated: interesting.

PIONEER WILDLIFE HIKE - Meet in the Signal Mountain Lodge parking area. Transportation required for drive to trailhead. Join a naturalist for a hike up Signal Mountain and learn about homesteading in Jackson Hole while keeping a lookout for area wildlife. Be sure to bring insect repellent, rain gear, sturdy boots, water bottle and a lunch or snack food. Approximately 5 hours.

SUNSET PHOTOGRAPHY - Meet at Jackson Point Overlook on the Signal Mountain Summit Road. A professional photographer/naturalist will give tips on photographing mountain scenery and sunsets. Be sure to bring your camera gear. Everyone welcome.

TWILIGHT WALK - Meet at the East Shore Boat Dock on Jenny Lake. Walk to ponds at the base of Mt. Teewinot and look for wildlife. Rated: easy. Duration 1 1/2 hours.

Colter Bay & Lizard Creek Area

Things To Do

SUNDAYS

- 8:45 a.m. Museum Tour
- 10:00 a.m. Life Around the Tipi
- 1:00 p.m. Ethno-Botany Hike
- 1:00 p.m. Swan Lake Hike
- 2:00 p.m. Native American Slide Program
- 7:00 p.m. Museum Tour
- 8:00 p.m. Evening Campfire Program. Lizard Creek Campfire Circle.
- 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.



Native Americans give insights into their cultural and artistic past.

MONDAYS

- 8:30 a.m. Grand View Point Hike
 8:45 a.m. Museum Tour
 9:00 a.m. All Day Backwoods Adventure
 10:00 a.m. Treasure Island Woods Rallye
 1:00 p.m. Adult Beadwork Class
RESERVATIONS REQUIRED
 1:00 p.m. Swan Lake Hike
 1:00 p.m. Flower Focus Stroll
 5:00 p.m. In Storage
 6:30 p.m. Christian Pond Walk
 7:00 p.m. Museum Tour
 8:00 p.m. Evening Campfire Program.
 Lizard Creek Campfire Circle.
 Jackson Lake Lodge Slide Program
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

TUESDAYS

- 8:45 a.m. Museum Tour
 1:00 p.m. Children's Indian Lore Program.
RESERVATIONS REQUIRED.
 1:00 p.m. Swan Lake Hike
 2:00 p.m. Talking Hands
 2:00 p.m. Native American Slide Program
 3:00 p.m. The Geohike
 6:30 p.m. Christian Pond Walk
 7:00 p.m. Museum Tour
 8:00 p.m. Evening Campfire Program.
 Lizard Creek Campfire Circle.
 8:00 p.m. Evening Campfire Program.
 Flagg Ranch Campfire Circle.
 Topic: Fishing (John D. Rockefeller, Jr. Memorial Parkway)
 9:00 p.m. Jackson Lake Lodge Slide Program
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

WEDNESDAYS

- 8:30 a.m. Grand View Point Hike
 8:45 a.m. Museum Tour
 10:00 a.m. Life Around the Tipi
 10:00 a.m. Treasure Island Woods Rallye
 1:00 p.m. Swan Lake Hike
 1:00 p.m. Ethno-Botany Hike
 1:00 p.m. Flower Focus Stroll
 7:00 p.m. Museum Tour
 8:00 p.m. Evening Campfire Program.
 Lizard Creek Campfire Circle.
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

THURSDAYS

- 8:30 a.m. Grand View Point Hike
 8:45 a.m. Museum Tour
 1:00 p.m. Swan Lake Hike
 1:00 p.m. Children's Indian Lore Program
RESERVATIONS REQUIRED
 2:00 p.m. Talking Hands
 2:00 p.m. Native American Slide Program
 3:00 p.m. The Geohike
 5:00 p.m. In Storage
 6:30 p.m. Demonstration
 6:30 p.m. Christian Pond Walk
 7:00 p.m. Museum Tour
 8:00 p.m. Evening Campfire Program.
 Lizard Creek Campfire Circle.
 8:00 p.m. Evening Campfire Program.
 Huckleberry Campfire Circle.
 Topic: Backpacking (John D. Rockefeller, Jr. Memorial Parkway)
 9:00 p.m. Jackson Lake Lodge Slide Program
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

FRIDAYS

- 7:00 a.m. Bird-About
 8:45 a.m. Museum Tour
 1:00 p.m. Swan Lake Hike
 1:00 p.m. Adult Beadwork Class
RESERVATIONS REQUIRED

FRIDAYS [cont.]

- 7:00 p.m. Museum Tour
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

SATURDAYS

- 8:45 a.m. Museum Tour
 1:00 p.m. Swan Lake Hike
 1:00 p.m. Children's Indian Lore Program
RESERVATIONS REQUIRED
 2:00 p.m. Native American Slide Program
 7:00 p.m. Museum Tour
 8:00 p.m. Evening Campfire Program.
 Lizard Creek Campfire Circle.
 9:30 p.m. Evening Slide Program. Colter Bay Amphitheatre.

Description of Activities

NATIVE AMERICAN SLIDE PROGRAM - Special slide programs presented by Native Americans on the art and culture of America's original peoples. Meet in the Colter Bay Visitor Center auditorium.

SWAN LAKE HIKE - Meet in front of the Colter Bay Visitor Center for a 3-mile, 3½-hour loop hike to Swan Lake and Heron Pond. Rated: easy.

TALKING HANDS - A one-hour program introducing the universal sign language of the Plains Indian. Meet at the Colter Bay Visitor Center.

TREASURE ISLAND WOODS RALLYE - A treasure map, cryptic clues, and orienteering compass help you learn about the natural history of the park as you search for secret signs on a nearby island. Meet in front of the Colter Bay Visitor Center for this two-hour activity. Equipment provided for those without. Rated: fun.

ADULT BEADWORK CLASS - Learn from a Native American guide the art of Plains Indian Beadworking. This four-hour class will introduce you to the skills and techniques of beadworking. All materials provided. No fee.

RESERVATIONS REQUIRED: sign up at the Colter Bay Visitor Center or call 543-2467.

ALL DAY BACKWOODS ADVENTURE - Hike and bushwhack for approximately 10 miles through an infrequently visited corner of the park. Bring lunch, water, rain gear, sturdy boots, and long pants. Meet on the front porch of the Colter Bay Visitor Center and drive to the trailhead. Car pooling is encouraged. Return time of 5 p.m. Rated: Moderately difficult. **RESERVATIONS REQUIRED:** sign up at the Colter Bay Visitor Center or call 543-2467.



BIRD-ABOUT - Birds are not to be sneezed at: they may be direct descendants of the dinosaurs. Join this early morning search for the birds of Grand Teton. Meet at the Oxbow Bend Wildlife Exhibit Turnout (1.3 miles east of the Jackson Lake Junction on the main highway) for a two-mile stroll to look for birds. Bring your binoculars and field guide. Beginners welcome.

CHILDREN'S INDIAN LORE PROGRAM - Children 8 to 12 are invited to spend three hours with Native American guides who will teach them the art of Indian beadwork and take them on a nature hike where they will discover how Indians used the plants, animals and rocks of Jackson Hole. **RESERVATIONS REQUIRED:** sign up at the Colter Bay Visitor Center or call 543-2467.

CHRISTIAN POND WALK - Meet on the back terrace of Jackson Lake Lodge for a 1½-mile, 1½-hour walk to Christian Pond. Trumpeter swans, often seen here, are a highlight of this trip.

DEMONSTRATION - A park naturalist's personal interest in the natural world of Grand Teton is presented through these informal demonstrations. Meet in the Colter Bay Amphitheatre. Program topics may include backpacking, rock climbing, flyfishing, and bird calls.

ETHNO-BOTANY WALK - Can you recognize the band-aid plant? The ethno-botany walk will show you how Native Americans used the plants for food, medicine, and clothing long before there was a drug store. Meet on the back porch of the Colter Bay Visitor Center for this easy 3-hour walk into the world of traditional plant medicine.

Remember Reservations

Most of the Naturalist Activities offered in Grand Teton National Park do not require reservations. However, in order to preserve the quality of the experience on some of the more intense activities, it has become necessary to require reservations.

South District activity reservations may be made at the Moose Visitor Center or by calling 733-2880 or 543-2851. Reservations are required for:

- All Day Hikes to Garnet Canyon and Amphitheatre Lake
- The Junior Ranger Program



North District activity reservations may be made at the Colter Bay Visitor Center or by calling 543-2467. Reservations are required for:

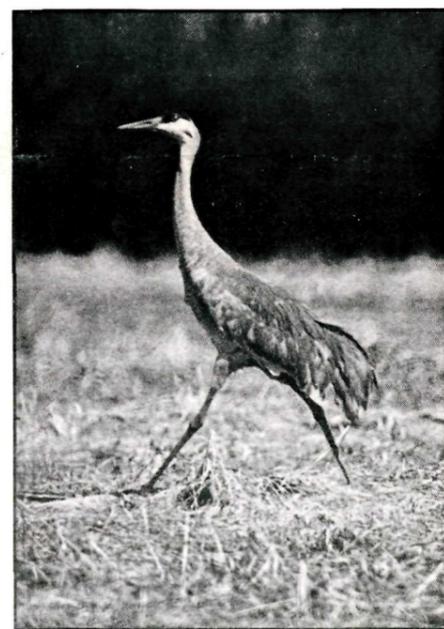
- All Day Hikes to Emma Matilda and Two Ocean Lakes
- The Children's Indian Lore Program
- The Adult Crafts Program

EVENING CAMPFIRE PROGRAM - This traditional program meets around the campfire and gives you an informal opportunity to learn more about your park. Play "stump the ranger" with questions about what you did and didn't see.

EVENING SLIDE PROGRAM - From glaciers to mosquitoes, you'll have the opportunity of seeing some of the most interesting parts of this park through these 45-minute illustrated talks.

FLOWER FOCUS STROLL - Everything you always wanted to know about wildflowers but were afraid to ask. A leisurely 2-hour journey into the beautiful world of Rocky Mountain wildflowers. Meet at the front porch of the Colter Bay Visitor Center.

THE GEOHIKE - Can a rock be like an ice-cream sandwich? Discover how along with the rest of the unusual story of the geologic history of the park. This 1½-hour stroll along the shore of Jackson Lake is rated easy. Meet at the Colter Bay Amphitheatre.



Sandhill Cranes may be seen in the early summer months in marshy, grassy areas of the Park.

GRAND VIEW POINT HIKE - Meet at the front porch of the Colter Bay Visitor Center. Bring your car for a 4-mile drive to the trailhead. Car pooling is encouraged. This 2½-mile, 3-hour round trip walk features commanding views of Two Ocean, Emma Matilda, and Jackson Lakes from the vantage of an extinct volcano. Rated: moderately difficult.

IN-STORAGE - Part of the Indian Art collection is not on display. For a closer look at pieces not often seen join the museum's curator for a closer look at some of these art works. Lower level, Colter Bay Visitor Center.

JACKSON LAKE LODGE SLIDE PROGRAM - 45-minute slide-illustrated program presented by a park naturalist. Meet in the Explorer Room, Jackson Lake Lodge.

LIFE AROUND THE TIPI - The Plains tipi has been called the most practical and best designed portable dwelling ever invented. Find out more about it when Native American guides raise the tipi outside the Colter Bay Visitor Center and invite visitors to enter. Learn a little more about domestic life in a tipi. Meet near the visitor center between the amphitheatre and the bay.

MUSEUM TOUR - 45-minute tour conducted by Native American guides. Meet at the Colter Bay Visitor Center.

Do It Yourself

VISITORS CENTERS - Visitor Centers are designed to help you know your park better and assist you in achieving an enjoyable visit. You may obtain information, publications, and view interpretive exhibits.



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MOOSE VISITOR CENTER - open daily all year 8:00 a.m. to 5:00 p.m., summer 8:00 a.m. to 7:00 p.m. Exhibits illustrate the "Mountain Man" fur trade era in Jackson Hole and the Rocky Mountains. Phone (307) 733-2880.

COLTER BAY VISITOR CENTER - open daily in summer 8:00 a.m. to 9:00 p.m. The David T. Vernon Indian Arts Collection is featured in the exhibit rooms. Indian culture films and slide shows will be shown every hour beginning at 9:00 a.m. with the last showing at 8:00 p.m. A slide show introducing the beauties of Grand Teton National Park will be shown on request.

WAYSIDE EXHIBITS - Roadside turnouts with interpretive exhibits are located throughout the Park adjacent to major highways. Plan to stop and enjoy a moment's freedom from your automobile. Park naturalists will be stationed at these turnouts at various times throughout the summer. They'll be answering your questions, giving short talks, and perhaps taking impromptu walks out into the surrounding environment. Watch for the green car and the ranger flat hat!

SELF-GUIDING TRAILS

MENOR-NOBLE HISTORIC TRAIL - ½-mile loop trail with stops depicting early homesteading history in the Jackson Hole Valley. Leaflets available at the Moose Visitor Center or at the trailhead. Bill Menor's cabin is open daily from 10:00 a.m. to 4:00 p.m. mid-June to late August.

CUNNINGHAM CABIN TRAIL - 1.5-mile trail with stops depicting early ranching history of the Jackson Hole Valley and some of the natural history of the area. Leaflets available at the Moose Visitor Center or at the trailhead.

OXBOW BEND N.E.S.A. TRAIL - the Oxbow Bend of the Snake River has been designated as a National Environmental Study Area. This trail offers a special bonus to family groups - the leaflet is written in two versions, one for children and one for adults. Leaflets available at the Moose Visitor Center, Colter Bay Visitor Center, or at the trailhead.

COLTER BAY NATURE TRAIL - 1-mile loop trail on an isthmus of land in Jackson Lake. Stops depict natural history of the land and the lake shore. Leaflets available at the Colter Bay Visitor Center or at the trailhead.

CASCADE CANYON TRAIL - This leaflet gives you an interpretation of the natural features to be found on the hike up Cascade Canyon to Lake Solitude. Leaflets available at the Moose Visitor Center or at the East Shore Boat Dock on Jenny Lake.

THREE SENSES TRAIL - a nature trail designed for the visually impaired or anyone who wishes to exercise his senses. Portable cassette recorders and tapes are available at the Colter Bay Visitor Center. Trail leaflets can be obtained either at the Colter Bay Visitor Center or at the trailhead.

For the Young... and the Young-at-Heart

All naturalist activities are open to people of all ages, but this summer three activities tailored to the special interests and needs of children and senior citizens are being offered.



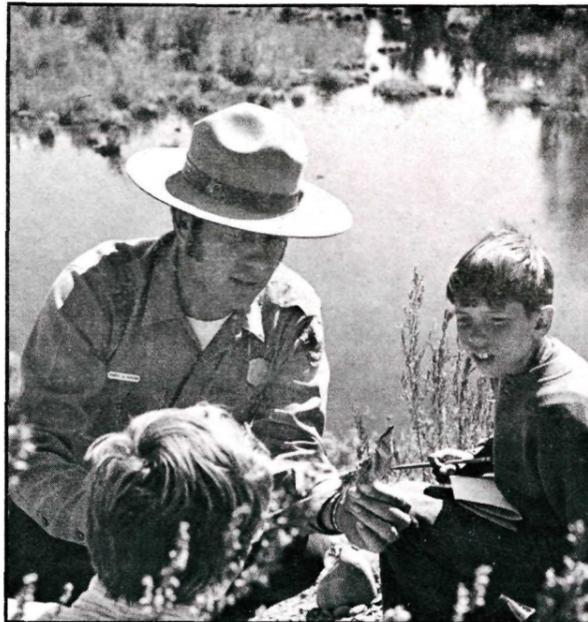
Jr. Rangers learn about wildflowers.

A new Golden Age program will be offered this year on Saturday mornings with time and place to be announced. This special program will feature an easy hike of about two hours, led by a naturalist and tailored in pace for older adults. Interested individuals should inquire at the Moose Visitor Center for further details.

Once again, the Park Service will offer its Junior Ranger program for children ages 7-11. The program runs from 1:30 to 4:30 p.m. Mondays, Wednesdays and Fridays in the Junior Ranger Clubhouse. The program is limited to 20 children per session and reservations are required. Parents wishing to enroll their children should make reservations a day in advance at the Moose Visitor Center or by calling 733-2880 or 543-2851.

Activities include a puppet show, a discovery hike, and informal sessions on plant and animal identification. The program also encourages the youngsters to think about and express their own ideas on the purpose of national parks and the ways in which they would like them to be run.

On Tuesdays, Thursdays and Saturdays, the focus of the children's program is Indian Lore. Programs are held from 1 to 4 p.m. at the Colter Bay Visitor Center and offer 8 to 12 year-olds an opportunity to learn the



Park naturalists are eager to share information about the many aspects of natural history in Grand Teton.

art of Indian beadwork and to take a nature hike with an emphasis on the ways in which Indians used the plants, animals, and rocks of Jackson Hole. Once again, the number of participants is limited and advance reservations are required. Reservations may be made at the Colter Bay Visitor Center or by calling 543-2467.

Fur Trade: Alive and Well



Don't be surprised if you see this "Mountain Man" near Menor's Ferry.

History is alive and well in Grand Teton National Park - and makes regular appearances four times weekly in the form of a fur trapper who frequents the area.

Beginning Monday, June 19, you're likely to encounter this buckskinned gentleman on Mondays and Fridays along the Snake River in the Menor's Ferry area. Monday nights he shows up at the Signal Mountain Amphitheatre for an evening program beginning at 9:30 p.m. Thursdays, you'll find him at the Jenny Lake Campfire beginning at 8 p.m.

Although the beaver hats that led to the fur trade era and, in large measure to the early exploration of the west, are now passé, they've left their mark on Jackson Hole and secured a place in the American imagination in the "Mountain Man" ethic.

The fur trappers gave the valley its name, "Jackson's Hole": "Jackson" for the fur trapper David E. Jackson, who worked this territory regularly; "Hole," the trappers' term for a valley surrounded by mountains. The French fur trappers named the mountains, too. "Les trois tetons," from which the name "Tetons" is derived, means "the three breasts," the shape the early trappers found in the mountains' configuration.

The Fur Trade Museum in the Moose Visitor Center details a portion of this era in a set of exhibits, but if you'd like to hear about it from the horse's mouth, try a stroll in the Menor's Ferry area or one of the evening programs at Jenny Lake or Signal Mountain.

Fishing

Fishing is permitted many places in Grand Teton National Park in conformance with the regulations of the State of Wyoming and the National Park Service. A summary of these regulations is available at all visitor centers and should be consulted for seasons, limits, baits and tackle rules before visitors begin to fish.

Fishing from bridges is not permitted in Grand Teton National Park.

A Wyoming fishing license is required to fish in Grand Teton National Park (but is not required to fish in Yellowstone) and may be purchased in the Park at the Colter Bay or Moose tackle shops and at Signal Mountain Lodge. Children under the age of 14 and accompanied by a licensed adult may fish without a license, but will be subject to the creel limits of the license holder.

License fees are:

Wyoming Residents

Season.....\$5.00
5-Day.....\$3.00
Season Youth (14-18).....\$2.00
Under 14.....Not required

Non-Residents

Season.....\$25.00
5-Day.....\$5.00
5-Day Youth (Under 14).....\$2.00



TEEWINOT

TEEWINOT is a publication of the Grand Teton Natural History Association, made possible in part through contributions from concessioners in Grand Teton National Park.

TEEWINOT is issued four times a year. Mail copies may be requested by writing: TEEWINOT, Grand Teton National Park, Drawer 170, Moose, Wyoming 83012. Comments and editorial submissions should be directed to the same address.

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RIDDELL PHOTOGRAPHICS--Photography, Design and Layout
JACKSON HOLE NEWS -- Printing
Grant Hagen, line drawings

With the assistance of the staff of Grand Teton National Park.

Camping

Campgrounds

Six campgrounds operated by the National Park Service are available in the area for a fee of \$3.00 per night per site. At Jenny Lake, campers may stay for 10 days; two weeks is the limit at the other Park campgrounds.

With the exception of Jenny Lake, campsites will accommodate all conventional types of tents, trailers and recreational vehicles. Modern comfort stations, drinking water, and naturalist activities are available at all campgrounds. Utility hookups are not.

Campgrounds are operated on a first-come, first-served basis and advance reservations are not accepted. Campgrounds generally fill to capacity during July and August and the more popular campgrounds are usually filled by mid-morning. Space is often available at the Gros Ventre Campground until mid-afternoon and additional sites are available in nearby U.S. Forest Service areas, concessioner facilities in the John D. Rockefeller Jr. Memorial Parkway, and at commercial campgrounds outside the Park.

Camping is not permitted along roadsides or in other undesignated areas. Doubling up in campsites is not permitted and no overflow facilities are provided.

National Park Service campgrounds are:

	No. of Sites	Open/Closing Dates
Lizard Creek	60	6/15-9/7
Colter Bay 1,3	350	5/15-10/15
Signal Mountain 3	86	6/1-9/30
Jenny Lake 2	49	5/25-9/15
Gros Ventre 3	360	5/1-10/15
Snake River	24	6/1-9/10

1. Showers, visitor center, laundry and propane available.
2. Restricted to tents and small camping vehicles. Trailers, including tent and cargo trailers, walk-in pickup campers, motor homes, buses and other large vehicles are not permitted.
3. Trailer dumping station provided.



Group Camping

Ten group camping sites are located in the Colter Bay Campground and five are located at the Gros Ventre Campground. Each site can accommodate between 15 and 50 people. The nightly use fee is 50 cents per person.

Sites are available to scouts, religious and college groups, etc. Advance reservations are required and should be made as soon as possible after January 1 by writing to: Chief Ranger, Grand Teton National Park, Moose, Wyoming 83012.

Trailer Villages

Concessioner-operated trailer facilities are located at Colter Bay Trailer Village and Flagg Ranch. Rates are \$6.50-\$7.50 per night per site for full hook-ups and showers. Advance reservations are advisable for the Colter Bay facility and may be made by writing Grand Teton Lodge Company, Box 240, Moran, Wyoming 83013.

Backcountry Camping

Due to the increasing popularity of backpacking and the fragility of the Grand Teton ecosystem, overnight backcountry use has been placed on a permit system in Grand Teton National Park.

All overnight backcountry users are required to obtain a written no-fee permit before entering the backcountry. These permits, which are regularly checked by the Park's backcountry rangers, are issued on a first-come, first-served basis for the various camping zones that have been established by the Park to keep backcountry use within the carrying capacity of the land.

For similar reasons of user impact, open fires are no longer allowed in the backcountry and overnight users may wish to carry small butane or white gas stoves for cooking.

Certain areas of the backcountry that have suffered extreme overuse, such as Lake Solitude and Amphitheatre Lake, have been completely closed to overnight use to allow their sensitive high-altitude vegetation to recover from the impacts of earlier overuse.

Backcountry permits, regulations, and zone information may be obtained at the Jenny Lake Ranger Station or the Moose or Colter Bay Visitor Centers.

For Your Safety

All Visitors

- Respect the Park's wildlife inhabitants: keep your distance, don't feed the animals, and watch for them along the roads
- Respect the Park's other resources, too: leave rocks and plants in their natural setting
- Keep pets physically restrained and off the trails
- Report all accidents to a park ranger

Motorists

- Observe posted speed limits
- Drive vehicles only on established roadways
- Keep motor vehicles off the bikeways
- Watch for wildlife, particularly at night
- Be especially careful when passing cyclists
- If you're towing a trailer, be aware of the extra wide berth needed for passing cyclists
- If you've removed your trailer, remove your extended right side mirror, too, for the sake of the cyclists sharing the road.
- Be aware, summer time is also road repair time. Plan a little extra travel time between destinations.

Cyclists

- Wear bright clothing and keep an orange flag on your bicycle
- Ride single file on the right side of the road
- Try to stay off the roads at night, but be sure your bike is equipped with front headlights and rear red reflectors during all periods of low visibility
- Obey all rules of the road

Boaters & Fishermen

- Fish with a Wyoming State license and obey State and Park Service fishing regulations
- Obtain a boat permit for any watercraft

Campers

- Camp only in designated sites
- Obtain a backcountry camping permit before setting out into the backcountry
- Obey the bear management policy listed below

Hikers

- If you come from a lower elevation, take it easy with your hiking pace and be aware that you'll tire more quickly at the Park's 6,000-plus elevation
- Carry raingear and an extra bit of warm clothing with you on any hike, regardless of length
- Be sure your day pack includes a first-aid kit and an extra bit of high-energy food
- Wear comfortable, well-broken-in, sturdy hiking boots or shoes
- Register at the Jenny Lake Ranger Station before starting on any off-trail hike or climb

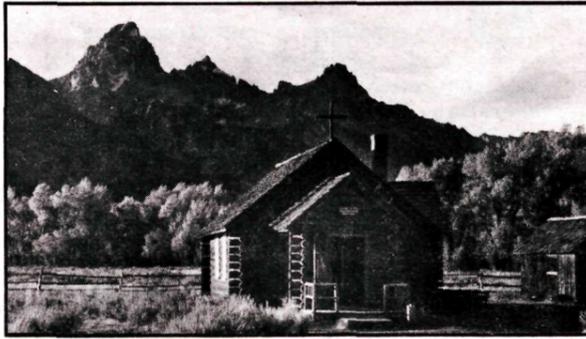
And now, a word about BEARS

Bear sightings are on the increase in Grand Teton National Park. Bears are usually shy and try to avoid people, but visitors are asked to help avoid bear incidents by obeying the following rules.

- At all campsites, picnic grounds and parking areas food or similar organic material must be either: 1) sealed in a vehicle or camping unit that is constructed of solid, non-pliable material; or 2) suspended at least ten (10) feet above the ground and four (4) feet horizontally from any support, tree trunk or branch and at least 150 feet from any campsite. This restriction does not apply to food that is in the process of being transported, being eaten or is being prepared for eating
- Avoid bears when seen: never approach or feed them.
- If charged, climb a tree or play dead. Don't attempt to run away, as you can't outrun a bear and will only excite him if you try.
- Report all fresh bear sign, sightings, damage, or personal injury to a park ranger.

Religious Services

A Christian Ministry in Grand Teton National Park sponsors interdenominational services each Sunday throughout the summer at various Park locations, beginning in June.



Chapel of the Transfiguration

Outdoor services are held at all campgrounds. Lizard Creek and Jenny Lake Campground services are at 9 a.m. and 7 p.m. Services in the amphitheaters at all other campgrounds are at 8 a.m., 10 a.m., and

7:30 p.m. Sunday school programs are offered at the 10 a.m. services at the Colter Bay and Signal Mountain Campgrounds.

Services are also held at Jackson Lake Lodge at 9 a.m., 11 a.m., and 7 p.m., and at Flagg Ranch in the John D. Rockefeller Jr. Memorial Parkway at 8 a.m., 10 a.m. and 7 p.m.

Informal dress is acceptable at all services.

Denominational services are offered as follows:

Catholic: Chapel of the Sacred Heart, located on Jackson Lake on the Teton Park Road near Signal Mountain. Saturday masses at 6 p.m. and 7:30 p.m.; Sunday masses at 9 a.m. and 10:30 a.m. A noon mass is also offered on Sundays at Jackson Lake Lodge.

Church of Jesus Christ of Latter Day Saints: Activities held at Jackson Lake Lodge. Sunday Priesthood Meetings at 2 p.m. Sunday Sacrament Meetings at 3 p.m.

Episcopal: Chapel of the Transfiguration, located near Park Headquarters at Moose. Communion Services at 8:30 a.m., Sunday, and 4 p.m., Wednesday. Worship Services at 10:30 a.m., Sunday.

Musclepower: An Energy Alternative You Can LIVE With

Grand Teton National Park is proud to unveil "An Energy Program You Can Live With," a unique response to the nation's continuing energy crunch.

This program will:

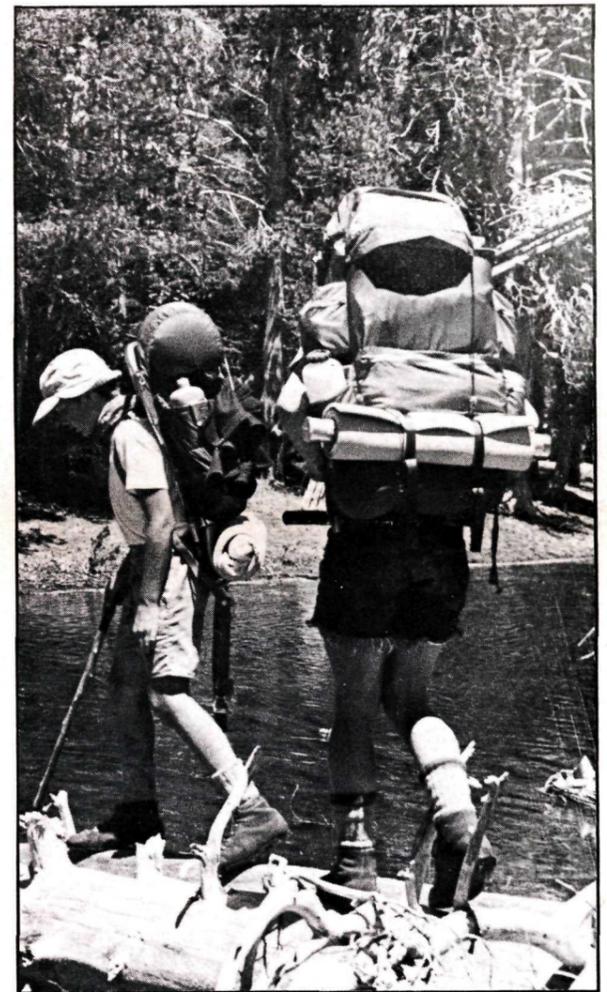
- increase energy consumption, while reducing dependence on dwindling fossil fuels,
- promote physical fitness, good health, and a longer life,
- and increase your enjoyment of the Park's natural setting by slowing you down to an appropriate pace.

In case you haven't guessed, the alternate energy source we're promoting is "muscle-power," a source where, "the calories you use are the calories you lose"—and that's a good thing!

Just for fun, we thought we'd show you the energy consumed by some of your normal activities and by some of the special recreational activities available in Grand Teton National Park.

The figures are taken from a government publication titled "Physical Fitness and Work Capacity" and are based on a person with a weight of 150 pounds. To compute your own energy consumption add 10 percent for each 15 pounds above 150; subtract 10 percent for each 15 pounds under 150.

ACTIVITY	CALORIES PER MINUTE
<i>Normal Activities</i>	
Standing, light activity	2.6
Driving a car	2.8
Clerical work	1.2-1.6
Walking Indoors	3.1
Walking downstairs	7.1
Walking upstairs	10-18
<i>Grand Teton National Park Activities</i>	
<i>Hiking</i>	
Road-field (3.5 mph)	5.6-7.0
Snow: hard-soft (3.5-2.5 mph)	10-20
Downhill: 5-10 pct. grade (2.5 mph)	3.5-3.6
Downhill: 15-20 pct. grade (2.5 mph)	3.7-4.3
Uphill 5-15 pct. grade (3.5 mph)	8-15
40-lb pack: (3.0 mph)	5
40-lb pack: (1.5 mph) 36 pct. slope	16
Canoeing (2.5-4 mph)	3-7
Cycling (5-15 mph-10-speed bicycle)	5-12
Mountain climbing	10
Rowing (pleasure-vigorous)	5-15
<i>Running</i>	
12-minute mile (5 mph)	10
8-minute mile (7.5 mph)	15
6-minute mile (10 mph)	20
5-minute mile (12 mph)	25
Swimming, pleasure	6
Water skiing	8



ACTIVITY	CALORIES PER MINUTE
<i>Other common recreations</i>	
Baseball (except pitcher)	4.7
Basketball (half-full court)	6-9
Bowling (while active)	7
Calisthenics	5
Football (while active)	13
Golf (foursome-twosome)	3.7-5
Handball and squash	10
Skiing (moderate to steep downhill)	8-12
Skiing (cross-country, 3-8 mph)	9-17
Tennis (recreation-competition)	7-11
Volleyball (recreation-competition)	3.5-8

Don't Just Can It - Recycle It!

For the second year, Grand Teton National Park is participating in the National Park Service's recycling program for beverage cans and bottles. This is part of a Congressionally-mandated program to reduce litter and recycle non-renewable resources.

A number of concessioners in the Park will be collecting five cent deposits on all canned and bottled beverages sold. To obtain a deposit refund, visitors should return cans to the concessioner that sold them the beverage. Refillable bottles may be returned to any store that sells the same beverage.

The purpose of the program is two-fold. First, to reduce litter, a problem in the Park in the past. Second, to encourage recycling as an energy and resource conservation measure.

Stores participating in the program this year are Signal Mountain Lodge, the Jenny Lake Store, Colter Bay Village, Jackson Lake Lodge, Leek's Marina, the

Slide In at Kelly, and Moose Enterprises—all within Grand Teton National Park; Flagg Ranch and Huckleberry Hot Springs in the John D. Rockefeller Jr. Memorial Parkway; and the Yellowstone Park Company and Hamilton Stores in Yellowstone National Park.

In addition, the Park Service will have a number of specially designated containers at campgrounds and entrance stations throughout the Park for the convenience of those who wish to have their cans recycled but who, for whatever reasons, cannot return them to the point of purchase for a deposit refund.

The money earned from the recycling of cans deposited at the campgrounds goes to the Grand Teton Natural History Association, a non-profit educational organization dedicated to interpreting the Park's resources to the public.

For the Visitor

Approximate opening and closing dates shown.



Where to Stay

COLTER BAY CABINS - 733-2811 or 543-2811. Write Grand Teton Lodge Co., Box 240, Moran, WY 83013. May 26 - Oct. 1.

COLTER BAY TENT VILLAGE - 733-2811 or 543-2811. Write Grand Teton Lodge Co., Box 240, Moran, WY 83013. June 16 - Sept. 5.

FLAGG RANCH VILLAGE - Motel units and cabins on the Snake River. May 3 - Oct. 1; Dec. 1 - March 15. Cross-country skiing and snowmobile rentals in winter. 543-2861 or 733-4818. Write Flagg Ranch Village, Moran, WY 83013.

JACKSON LAKE LODGE - 733-2811 or 543-2811. Write Grand Teton Lodge Co., Box 240, Moran, WY 83013. June 4 - Sept. 20.

JENNY LAKE LODGE (Modified American Plan) Write Grand Teton Lodge Co., Box 240, Moran, WY 83013. June 15 - Sept. 5.

MOOSE ENTERPRISES, INC. Housekeeping cabins at Moose. Box 39, Moose, WY 83012. June 10 - Oct. 1.

SIGNAL MOUNTAIN LODGE - Motel units and lakefront housekeeping apartments on Jackson Lake. May 8 - Oct. 17. Housekeeping apartments available in winter. 543-2831 or 733-5470. Signal Mountain Lodge, Moran, WY 83013.

TRIANGLE X RANCH - See Dude Ranch Listing.

WHITE GRASS RANCH - See Dude Ranch Listing.



Where to Eat

COLTER BAY GRILL - Open daily 6:30 a.m. to 10:00 p.m. May 26 - Oct. 1.

COLTER BAY CHUCKWAGON - Open daily. Dinner 5:00 p.m. to 9:00 p.m. June 2 - Sept. 24.

COLTER BAY SNACK BAR (Located by General Store). Open daily 10:00 a.m. to 6:00 p.m. June 2 - Sept. 24.

FLAGG RANCH RESTAURANT & COFFEE SHOP - Breakfast - Lunch - Dinner - Snacks - Box Lunches. Daily 7:00 a.m. to 9:30 p.m. May 3 - Oct. 1; Dec. 1 - March 15.

HUCKLEBERRY HOT SPRINGS - Snack bar. Open 7:00 a.m. to midnight. June 15 - Sept. 30.

JACKSON LAKE LODGE MURAL ROOM - Breakfast 7:30 a.m. to 9:00 a.m. Lunch served 12 noon to 1:30 p.m. Dinner 6:30 p.m. to 9:00 p.m. June 4 - Sept. 20.

JACKSON LAKE LODGE PIONEER ROOM - Open daily 6:00 a.m. to 10:30 p.m. June 4 - Sept. 20.

JENNY LAKE LODGE DINING ROOM - Breakfast 7:30 a.m. to 9:00 a.m. Lunch served 12 noon to 1:30 p.m. Dinner served 6:30 p.m. to 9:00 p.m. Reservations suggested for dinner. 543-2811 or 733-2811. June 15 - Sept. 4.

MOOSE ENTERPRISES CHUCKWAGON - Open daily. Breakfast 7:00 a.m. to 11:00 a.m. (Noon Sunday). Lunch 12 noon to 2:00 p.m. Dinner 3:00 p.m. to 9:00 p.m. (Sunday 12 noon to 9:00 p.m.). June 10 - Sept. 4.

MOOSE SNACK BAR - Open daily at Moose 10:00 a.m. to 6:00 p.m. June 2 - Sept. 4.

SIGNAL MOUNTAIN LODGE COFFEE SHOP - Open daily 7:00 a.m. to 10:00 p.m. May 8 - Oct. 17.

SIGNAL MOUNTAIN LODGE DINING ROOM - Open daily. Breakfast 7:00 a.m. to 10:00 a.m. Dinner 6:15 p.m. to 10:00 p.m. May 8 - Oct. 17.

SLIDE IN, KELLY - Snack Bar and beer. Open daily 7:30 a.m. to 9:30 p.m. Open all year.



Where to Drink

FLAGG RANCH TRAPPER'S BAR - Open daily 12:00 noon to 1:00 a.m. (Sunday 12:00 noon to 10:00 p.m.) Dancing 8:00 p.m. to 1:00 a.m. May 3 - Oct. 1; Dec. 1 - March 15.

JOHN COLTER BAR AT COLTER BAY - Open daily 3:00 p.m. to 11:00 p.m. Sunday 2:00 p.m. to 10:00 p.m. May 26 - Sept. 30.

MOOSE ENTERPRISES SPUR BAR - Lounge and view deck. Open daily 9:00 a.m. to 12:00 p.m. (Sunday 12:00 noon to 10:00 p.m.) Open all year.

SIGNAL MOUNTAIN TOP OF THE LODGE LOUNGE - Open daily 12:00 noon to midnight (Sunday 12:00 noon to 10:00 p.m.) May 8 - Oct. 17.

STOCKADE ROOM - In Jackson Lake Lodge. Open daily 11:00 a.m. to 12:00 midnight. (Sunday 12 to 10 p.m.) June 4 - Sept. 20.



Camper and Trailer Services

COLTER BAY SHOWERS - Open daily 8:00 a.m. to 5:00 p.m. May 26 - Oct. 1.

COLTER BAY LAUNDERETTE - Open daily 10:00 a.m. to 5:00 p.m. May 26 - Oct. 1.

COLTER BAY TRAILER VILLAGE - Open daily with all hookups available. Reservations advised. 543-2811 or 733-2811. May 26 - Oct. 1.

FIREWOOD - Available for sale at Colter Bay Tent Village, Moose Enterprises Grocery, and Slide In, Kelly.

FLAGG RANCH VILLAGE TRAILER CAMP - Full hookups, showers, launderette, campsites. May 3 - August 31.

HUCKLEBERRY HOT SPRINGS LAUNDERETTE - Open daily 7:00 a.m. to 8:00 p.m. June 15 - Sept. 30.

HUCKLEBERRY HOT SPRINGS CAMPGROUND - Open 7:00 a.m. to midnight. Electrical hookups only, showers, swimming pool. June 15 - Sept. 30.

MOOSE ENTERPRISES LAUNDERETTE - Open daily 8:00 a.m. to 11:00 p.m. June - Oct. 1.

Lodging, meals, gifts, services, transportation and serendipity available in Grand Teton National Park and the John D. Rockefeller Jr. Memorial Parkway.

These goods and services are offered by private concessioners. The Park Service will not make concession reservations.



Service Stations

* Accepts Bank Cards

***COLTER BAY HIGHWAY CHEVRON STATION** - Open daily 7:00 a.m. to 9:00 p.m. May 16 - Oct. 4.

***COLTER BAY VILLAGE CHEVRON STATION** - Open daily 8:00 a.m. to 7:00 p.m. June 9 - Sept. 10.

FLAGG RANCH TEXACO STATION - Open daily 7:00 a.m. to 12 midnight. Open all year.

***HUCKLEBERRY HOT SPRINGS CHEVRON STATION** - Mechanical repair 7:00 a.m. to 10:00 p.m. 24 hour AAA Wrecker Service. June 15 - Sept. 30.

***JACKSON LAKE LODGE CHEVRON STATION** - Open daily 8:00 a.m. to 7:00 p.m. June 4 - Sept. 20.

***MOOSE CHEVRON STATION** - Open daily 8:00 a.m. to 7:00 p.m. May 19 - Oct. 1.

***MOOSE ENTERPRISES UNION 76 STATION** - Open daily 8:00 a.m. to 8:00 p.m. Open all year.

SIGNAL MOUNTAIN LODGE AMOCO STATION - Open daily 7:00 a.m. to 9:00 p.m. Open all year.

***SLIDE IN PHILLIPS 66 STATION, KELLY** - Open daily 7:30 a.m. to 9:30 p.m. Open all year.



Gifts, Books and Literature

COLTER BAY VILLAGE GENERAL STORE - Open daily 7:30 a.m. to 10:00 p.m. May 26 - Oct. 1.

COLTER BAY VISITOR CENTER - Open 9:00 a.m. to 5:30 p.m. May 20 - Oct. 15.

FLAGG RANCH VILLAGE - Open daily 7:00 a.m. to 10:00 p.m. May 3 - Oct. 1; Dec. 1 - March 15.

JACKSON LAKE LODGE GIFT SHOP - Open daily 8:00 a.m. to 10:30 p.m. June 4 - Sept. 20.

JACKSON LAKE LODGE NEWSSTAND - Sundries, magazines, books, cigars. 7:00 a.m. to 11:00 p.m. June 4 - Sept. 20.

MOOSE VISITOR CENTER - Open 8:00 a.m. to 4:30 p.m. Open all year.

SIGNAL MOUNTAIN LODGE GIFT SHOP - Open daily 7:00 a.m. to 10:00 p.m. May 8 - Oct. 17.

SLIDE IN, KELLY - Open daily 7:30 a.m. to 9:30 p.m. Open all year.

TETON BOOK SHOP - Next to the Moose Chuckwagon. Open daily 8:00 a.m. to 9:00 p.m. 733-4486. June 1 - Sept. 10.



Marina Services (Lake fishing guides)

COLTER BAY MARINA - On Jackson Lake. Fishing guide services, launching, marine supplies, boat rentals, scenic cruises. 543-2811. May 26 - Oct. 1.

LEEK'S MARINA - On Jackson Lake. Fishing guide service, launching, buoy rentals, marine supplies and fuel, boat rentals. 543-2494. June - September.

SIGNAL MOUNTAIN MARINA - On Jackson Lake. Fishing guide service, buoy rentals, marine supplies and fuel, boat rentals. 543-2831 or 733-5470. June - September.

TETON BOATING CO. - On Jenny Lake. Scenic cruises, shuttle service, boat rentals. 733-2703. Open 8:00 a.m. to 5:00 p.m. June - Sept. 15.



Mountaineering-Trail Hikes

EXUM GUIDE SERVICE & SCHOOL OF AMERICAN MOUNTAINEERING - Located at Jenny Lake. Basic and Intermediate Schools daily. Guided ascents of Grand Teton and all peaks in Teton Range. 733-2297, Box 504, Wilson, WY 83014. June - Sept. 11.

JACKSON HOLE MOUNTAIN GUIDES - Daily climbing schools; guided ascents of all peaks in the Teton range; 8 day intensive mountaineering seminars; ice climbing instruction. Low client to guide ratio. Phone 733-4979, Teton Village, Wyoming 83025. June - Sept. 15.

CLIMBER'S RANCH - Operated by the American Alpine Club as dorm and cooking area for registered mountaineers. 733-4496. June 15 - Sept. 10.



Horseback Riding

COLTER BAY VILLAGE - Trail rides of various lengths in the Colter Bay area. 733-2811 or 543-2811. May 26 - Oct. 1.

FLAGG RANCH VILLAGE - One and two hour trail rides several times daily. Cowboy breakfasts, chuckwagon dinners, wagon trips. 543-2861 or 733-4818. June - Sept. 25.

JACKSON LAKE LODGE - Breakfast and group rides 8:00 a.m. Two-hour rides 1:00 p.m. and 3:00 p.m. Three-hour rides 1:30 p.m. 733-2811 or 543-2811. June 4 - Sept. 20.

TETON TRAIL RIDES - Jenny Lake. Trail rides in the Tetons, guide service, pack trips and evening steakhouses. 733-2108. Moose, WY 83012. June 1 - Sept. 25.



Dude Ranches

TRIANGLE X RANCH - A working dude ranch (weekly) (American Plan) with horseback riding, hikes, float trips, meals, fishing, dancing and other western ranch activities. 733-2183. May 15 - Nov. 18; reopen for winter activities Dec. 28 to April 15 - cross-country skiing, wildlife viewing, photography. Box 120, Moose, WY 83012.

WHITE GRASS RANCH - A dude ranch offering horseback riding, fishing, float trips, pack trips and other ranch activities including a fall horse drive. Open June 1 to Sept. 30, Box 230, Moose, WY 83012. 733-3329.



Special Events

ANCIENT INDIAN DANCES - The famous Laubins recreate Indian dances from the past. Jackson Lake Lodge. Fridays 8:30 p.m. (Admission charge). June - August.



Groceries, General Stores, Tackle Shops

COLTER BAY GROCERY AND GENERAL STORE - Open daily 7:30 a.m. to 10:00 p.m. May 26 - Oct. 1.

COLTER BAY TACKLE AND GIFT SHOP - Open daily 7:30 a.m. to 10:00 p.m. May 26 - Oct. 1.

FLAGG RANCH VILLAGE - Open daily 7:00 a.m. to 10:00 p.m. May 3 - Oct. 1; Dec. 1 - March 15.

HUCKLEBERRY HOT SPRINGS - Grocery and General Store open 7:00 a.m. to 12:00 midnight. June 15 - Sept. 30.

JENNY LAKE STORE - Open daily for groceries, supplies and gifts. 9:00 a.m. to 6:00 p.m. June 3 - Sept. 20.

LEEK'S MARINA - Open daily for fishing tackle 8:00 a.m. to 6:00 p.m. June - Sept.

MOOSE ENTERPRISES GROCERY - Open daily 8:00 a.m. to 8:00 p.m. Open all year.

MOOSE TACKLE SHOP - Open daily at Moose, 9:00 a.m. to 6:00 p.m. June 2 - Sept. 20.

SIGNAL MOUNTAIN GROCERY - Open daily 7:00 a.m. to 10:00 p.m. May 8 - Oct. 17.

SLIDE IN, KELLY - Open daily 7:30 a.m. to 9:30 p.m. Open all year.



Snake River Float Trips

Season for most companies is between mid-May and mid-September depending on weather and river-flow conditions. Fishing season extends later.

List of companies rotated each issue.

FLAGG RANCH - 543-2545, Moran, WY 83013. Whitewater and scenic trips. Guided fishing trips to lakes and streams.

FORT JACKSON FLOATS, INC. - 12 and 20 mile scenic trips; fishing trips. 733-2583.

GRAND TETON LODGE COMPANY - (Colter Bay Village & Jackson Lake Lodge), 10 and 20 mile scenic trips; fishing trips. 543-2811 or 733-2811. Moran, WY 83013.

NATIONAL PARK FLOAT TRIPS - 10 and 20 mile scenic trips; fishing trips. 733-4325. Box 411, Jackson, WY 83001.

OSPREY ENTERPRISES - 5 mile scenic trips. 733-4486. Box 1903, Jackson, WY 83001.

PARKLANDS EXPEDITIONS - 733-3379, 5 day float and canoe trips. Includes varied outdoor activities; everything provided. Box 371, Jackson, WY 83001.

SIGNAL MOUNTAIN LODGE - 20 mile scenic trips; fishing trips. 543-2831. Moran, WY 83013.

SOLITUDE FLOAT TRIPS - 5 and 10 mile scenic trips. Box 112, Moose, WY 83012. 543-2522 and 733-2871.

TRIANGLE X RANCH - 7, 10, 20 mile scenic trips, also sunrise, wildlife and evening supper floats; overnight floats; fishing trips. Box 120, Moose, WY 83012, 733-5500 or 733-2183.

BARKER-EWING SCENIC FLOATS, INC. - 5 and 10 mile scenic trips. 733-3410, Box 1243, Jackson, WY 83001.

JACK DENNIS - 10 and 20 mile scenic trips; fishing trips. 733-3270, Box 286, Jackson, WY 83001.



Misc. Etc.

MEDICAL SERVICES - St. John's Hospital in Jackson, WY, 83001. 733-3636.

BEAUTY SHOP - In Jackson Lake Lodge. Open 6 days a week. Closed Sundays. Open 9:00 a.m. to 5:00 p.m. Appointments suggested. 733-2811 or 543-2811. June 4 - Sept. 20.

BICYCLE RENTALS - Jackson Lake Lodge, Colter Bay Village General Store, Jenny Lake Store.

BUS TOURS & TRANSPORTATION - 733-2811 or 543-2811 for bus tours, transportation to and from Jackson, Yellowstone, intra-park. June - Sept. 18.

CANOE RENTALS - Teton Bookshop. Open daily 9:00 a.m. to 9:00 p.m. June 1 - Sept. 10.

COLTER BAY TAP ROOM - package beer available. Open daily 12:00 - 10:00. June 1 - Sept. 25.

FLAGG RANCH APPAREL SHOP - Open daily 7:00 a.m. to 10:00 p.m. May 3 - Oct. 1; Dec. 1 - March 15.

JACKSON LAKE LODGE APPAREL SHOP - Open daily 8:00 a.m. to 10:30 p.m. June 4 - Sept. 20.

PACKAGE SHOP - Stockade Room, Jackson Lake Lodge. Open daily 11:00 to 12:00 midnight (Sunday 12 to 10pm) June 4 - Sept. 20.

WINE AND PACKAGE SHOP - Large selection of wines. Moose Enterprises, Moose. 9:00 a.m. to 12:00 p.m. Open all year.

OTHER SERVICES OUTSIDE THE PARK - The town of Jackson is just 4 miles south of the Park. All services available. Stores and services also available at Teton Village.