

Minnesota Natural Resources

Department: Environmental
Assessment Files Regarding State
Parks

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ENVIRONMENTAL ASSESSMENT LAKE SHETEK STATE PARK

I. DESCRIPTION OF THE PROPOSED ACTION

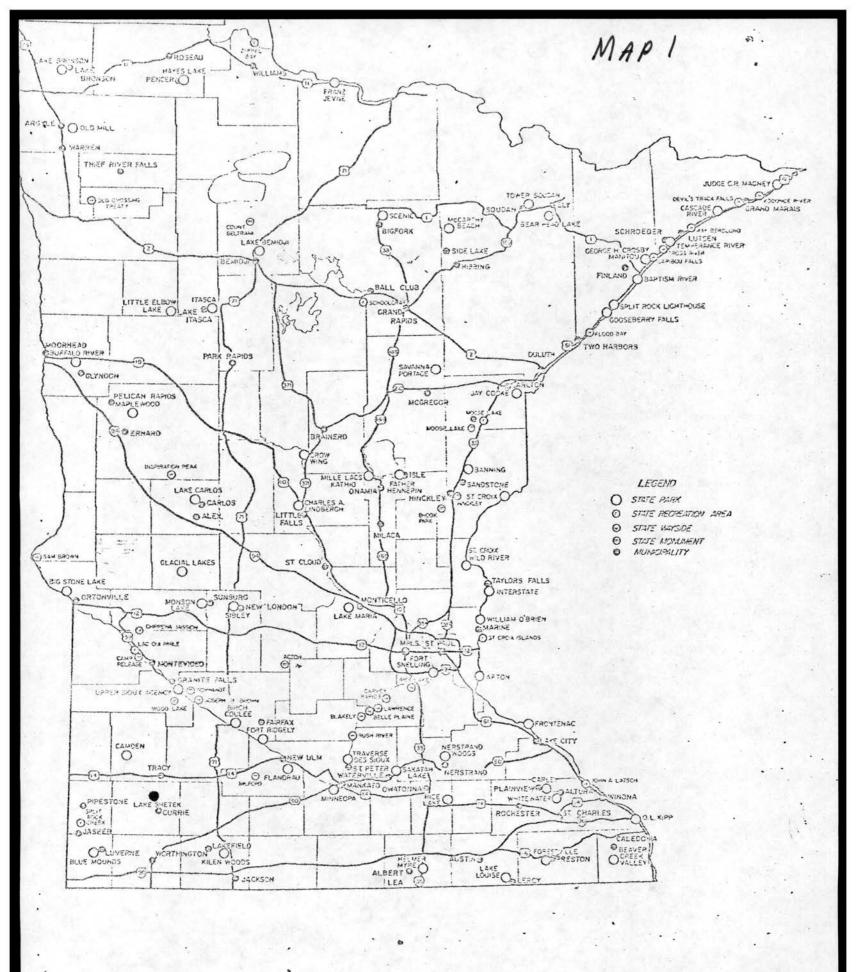
A. Purpose of the Action - Lake Shetek State Park was established by an act of the Minnesota State Legislature in 1937. The improvement of facilities within the park's statutory boundary, by the Minnesota Department of Natural Resources - Division of Parks & Recreation will increase the quality of recreational use for the enjoyment of the citizens of the State of Minnesota.

The State of Minnesota - Department of Natural Resources proposes that the Federal Bureau of Outdoor Recreation, as administrator of the Land and Water Conservation Fund (LAWCON), participate in this action.

B. Location and Magnitude of the Project - Lake Shetek State Park is located in Murray County approximately 5.5 kilometers north of Currie, Minnesota.

Approximately 21 kilometers to the southwest is Slayton, Minnesota, the closest major community. The Twin Cities are situated about 258 kilometers to the northeast (MAP I & II).

The present authorized land area for the park is 475.7 hectares. As of August 1, 1977, the total land area acquired was 381 hectares (MAP III).



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JACKSON CO.

GENERAL HIGHWAY MAP

MURRAY COUNTY MINNESOTA

MINNESOTA DEPARTMENT OF HIGHWAYS

IN COOPERATION WITH THE

U.S. DEPARTMENT OF TRANSPORTATION

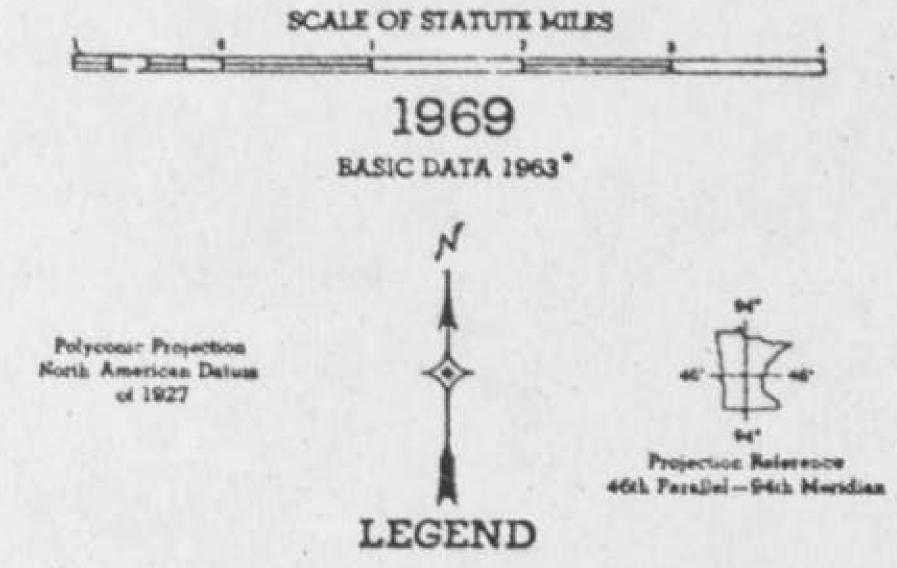
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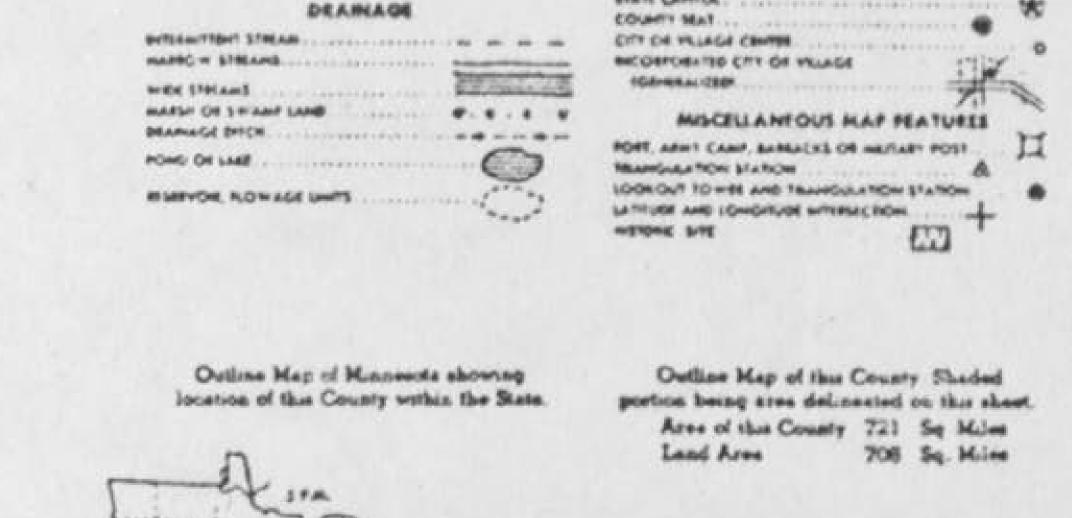
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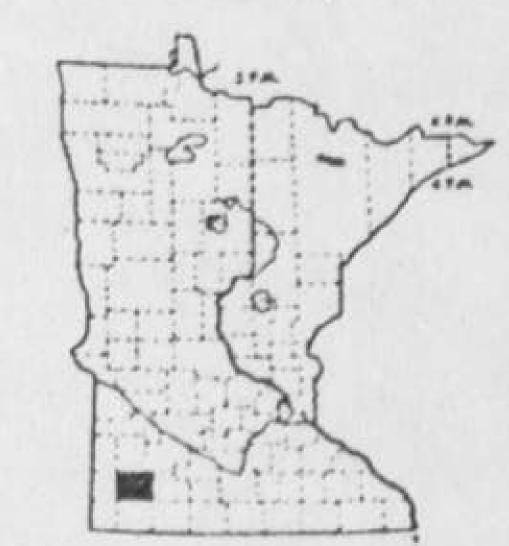
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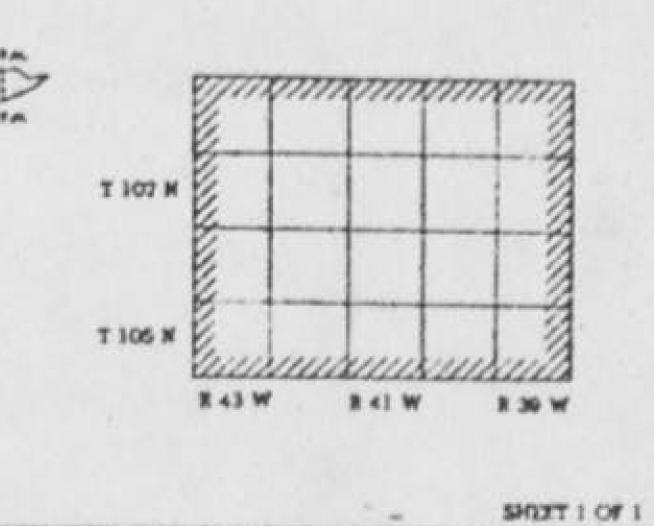
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


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It is proposed that the following improvement projects be carried out with the assistance of the Land and Water Conservation Fund.

- (1) Rehabilitation of the utility system in the park manager's residence.
- (2) Rehabilitation of the group camp sanitation building with modifications providing for handicapped accessibility.
- (3) Paving of the service center road.
 The estimated cost of these proposed projects is \$29,700.
- C. <u>Timing of the Project</u> State funds are available for completion of the project. The group camp sanitation building rehabilitation will be contracted. It is expected that the proposed improvement projects will be completed within one construction season.
- D. Future Development A comprehensive management planning process is now being done on state parks and recreation areas, pursuant to the Outdoor Recreation Act of 1975 (ORA). Although Lake Shetek State Park is not included in the first schedule of state parks and recreation areas for comprehensive management plan development, it will be scheduled for management plan development in the future. This process will assess the area's potential to service the recreation user's needs. Future development will not proceed unless a management plan has been completed. Upon completion of a management plan, recommendations and alternatives studied during the process will guide any future developments.

E. Recreation Needs to be Served by the Proposal - Lake Shetek State

Park provides recreational facilities for picnicking, swimming,

interpretation, fishing, boating, camping, hiking and snowmobiling.

The state park attendance record shows steady growth: 1974 - 133,416; 1975 - 164,617; 1976 - 206,689. Because of the increasing attendance in the state park, completion of this project is necessary so that continued high quality recreational use can be provided to meet increased demands.

II. DESCRIPTION OF THE ENVIRONMENT

A. Topography - The Lake Shetek area in which the state park is located has been long and rich in documented history. Lake Shetek (the Dakotah word for pelican) and the surrounding area was an important hunting ground for the Indian tribes that inhabited the area prior to settlement by the white man.

Lake Shetek is one of the largest natural lakes in southwestern Minnesota and was formed during the Wisconsin glaciation. The formation of the altamont moraine in the Mankato phase of Wisconsin glaciation acted as a dam behind which Lake Shetek is trapped. There are no exposures of bedrock in Murray County.

Within the state park boundaries are a variety of habitat types.

A large area of the park, along the shores of Lake Shetek and other smaller lakes within the park, is forested. An abundance of forest wildflowers and shrubs can be found growing under the oak, basswood and scattered maple stands. Several wetland areas are found in the park as well as prairie areas, former pasture land and open meadows. Because of its wooded nature, the park is atypical of the Coteau

des Prairies in which it is located (MAP IV).

Because of its size, Lake Shetek attracts concentrations of waterfowl in the spring and fall, particularly open water species, such as lesser scaup and redheads. With the variety of habitat types in the park, a diversity of faunal species inhabit the area.

B. Historical and Archaeological Resources - Lake Shetek State Park has not been surveyed for prehistoric and historic sites, but such a survey will be implemented in the inventory phase of ORA park planning. Because of the location and context of the park, it is expected to contain significant prehistoric deposits spanning a wide time frame. Probably the highest prehistoric cultural development in the area is the "Great Oasis" focus of the Mississippian period. In 1977, two sites were recorded on loon island in a preliminary surface study. Important sites are recorded just outside park boundaries on Lake Shetek.

The Park area figured prominently in the early settlement of southwestern Minnesota. During the Dakotah Uprising in 1862, the park area was the site of a major massacre, and several pioneer sites from this period lie within park boundaries.

- C. <u>Transportation and Utilities</u> Lake Shetek State Park is easily accessible via county state aid highways 38 and 37 north of Currie, Minnesota. U.S. Highway 59 and state highway 30 provide access to the vicinity of the park.
- D. <u>Socio-Economics Factors</u> The Minnesota State Planning Agency (SPA)

 population statistics for Murray County show a decrease in population



between 1960 and 1970 (approximately 18%). Based on 1970 population data, the SPA estimates an employed labor force of 4,020 persons within Murray County and an average family income of \$8,971,00. The statewide average family income in 1970 was \$11,097.00.

- E. Land Use The land use in this project is recreation.
- F. Existing Recreational Facilities Lake Shetek State Park provides facilities to visitors for picnicking, swimming, interpretation, fishing, boating, camping, hiking and snowmobiling.

III. ENVIRONMENTAL IMPACT OF THE PROPOSED PROJECTS

- A. Impact on the Physical and Biological Environment Some disruption of flora and fauna resources may occur in the immediate improvement sites; however, due to the highly localized nature of the projects, no significant impacts upon flora and fauna resources will occur.
- B. <u>Impact on the Historical and Archaeological Resources</u> Although historical and archaeological sites exist within the state park, no effect is anticipated on these sites if the projects are implemented.
- C. <u>Impact on Transportation and Utilities</u> Neither the major roadways to the area or the secondary roads providing access to the recreation area will be impacted by the proposal. The paving of the service road, being a private park road not open to the public, will not affect traffic in the park.
- D. <u>Impact on Socio-Economic Factors</u> Since all proposed improvements are within the state park boundaries, no loss of agricultural pro-

duction or local tax revenues will occur. Beneficial impacts on the local economy will be realized by the contracting of the proposed group camp sanitation building rehabilitation.

IV. MITIGATING MEASURES INCLUDED IN THE PROPOSED ACTION
Due to the nature of the proposed projects, no mitigating measures are considered necessary.

V. ANY ADVERSE ENVIRONMENTAL EFFECTS WHICH CANNOT BE AVOIDED SHOULD THE

- PROPOSAL BE IMPLEMENTED

 The proposed projects will unavoidably affect a minimal amount of flora and fauna resources. However, this will be confined to the highly localized areas of the improvement projects.
- VI. RELATIONSHIP BETWEEN LOCAL SHORT-TERM USES OF MAN'S ENVIRONMENT AND

 THE MAINTENANCE AND ENHANCEMENT OF LONG-TERM PRODUCTIVITY

 Short-term uses of the environment as they relate to the maintenance and enhancement of long-term productivity are not considered in terms of years. Trade-offs are necessary in order to gain certain benefits.

GAINS

- Improved accessibility to service area.
- Increased safety of the utility system in the park manager's residence.
- Rehabilitation of sanitation building facilities in the group camp.
- 4. Improvement in the local economy from necessary employment.

LOSSES

- Minimal disruption of localized flora and fauna resources.
- Expenditure of \$27,000.00 of public funds.

VII. ANY IRREVERSIBLE AND IRRETRIEVEABLE COMMITMENT OF RESOURCES WHICH
WOULD BE INVOLVED IN THE PROPOSED ACTION SHOULD IT BE IMPLEMENTED.

There will be an irreversible conversion from present recreational
land use to facilities used to enhance the recreational land. The
manpower, materials, and funds necessary to implement the proposed
improvements will also be irretrievably committed.

VIII. ALTERNATIVES TO THE PROPOSED ACTION

Only one alternative for the proposed improvements was considered, that being, no action. A no action development course would result in the flora and fauna resources remaining undisturbed in the localized area of the improvement projects. The service road, left in its present condition, would provide access to the service area but, at times, be responsible for inefficient service functions.

A no action decision on the rehabilitation of the utility system in the park manager's residence would leave the system in an unsafe and unsatisfactory condition.

A no action alternative to the group camp sanitation building improvement project would result in the facilities being inadequate in meeting present needs. The state of the s

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Dept. of Natural Resources Div. of Parks & Recreation

DEPARTMENT Natural Resources - Wildlife

Office Memorandum

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TO

: Larry R. Nelson, Region 4 Wildlife Supervisor

DATE:

12/16/81

FROM

: Earl N. Johnson, Area Wildlife Mgr, Slayton

PHONE:

(507)836-6919

SUBJECT:

1981 Muzzleloader Deer Season at Lake Shetek State Park

The special permit muzzleloader deer season at Lake Shetek State Park is now history. The total harvest included 16 adult males, 1 adult female, 1 fawn male and 1 fawn female for a total of 19 deer. Two hunters did not show up to hunt so the success rate was, as expected, 100 percent.

As indicated in the attached article from the December 14, 1981, Worthington Globe, the hunt was a complete success. There were no problems encountered what-so-ever and no complaints have been received to date.

It is, however, appropriate to start thinking about the 1982 season because removal of 19 deer did essentially nothing to reduce the population of resident deer in the state park. It merely means that there are 19 fewer mouths to feed this winter.

During the initial planning and discussion for the '81 season the recognized overall objective was to reduce the resident deer herd within this park. The '81 season became an experiment to determine how the public would react, how the hunters would act and how the deer would react. Results have been favorable in all three of these areas. In my opinion, the '82 season should be a more direct effort toward meeting the primary objective of herd reduction.

The '81 season taught us four things important to future seasons:

- 1. In Lake Shetek State Park, given a population of 150[±] deer, the hunters do not need 7 and 9 days to bag their animal. No hunter spent more than three days in the field to fill his tag.
- 2. Ten hunters will not disturb this deer herd enough to cause them to leave the public property. Normal daily behavior patterns carry some of the deer across the east boundary into plowed croplands, but they were never observed to be reluctant to return to the park.
- 3. Almost half of the park received little or no hunting pressure. To our knowledge (including Bob, Al and I):
 - no one hunted south of Smith Lake at any time.
 - the trees surrounding Smith Lake were hunted only one afternoon by one hunter (he bagged a nice buck).
 - Loon Island was hunted only part of one day during each hunting period.

Deer were present in all of these areas during the season.

Page 2 12/16/81 Larry R. Nelson

4. Typical of most deer hunters, these fellows hunted "hat racks".
Only two of the 19 hunters openly stated that they wanted a
"nice doe". During casual discussions with 5 separate hunters, all
5 expressed an interest in coming back to hunt the park EVEN IF
the season was restricted to antlerless deer only.

I would like to make the following recommendations for the 1982 Muzzleloader Deer season in Lake Shetek State Park:

1. Assuming a framework similar to the '81 season, set 3 hunting periods with 15 hunters in each as follows:

15 Permits Nov. 27 - 29 (3 days) 15 Permits Dec. 2 - 5 (4 days) 15 Permits Dec. 8 - 12 (5 days)

2. Issue all permits for the taking of ONLY antlerless deer.

It is imperative that this herd be reduced and I think the hunters are willing to help do it. More "quality" could be given the hunt in succeeding seasons by issuing "Antlered Deer Permits" or by having another "Any Deer" season once the herd is at a more acceptable level.

cc. Bob Rosengren LeRoy Rutske

IN THE REGION

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CURRIE - Success doesn't get any better than that enjoyed by hunters in the special deer seasons completed Sunday at Lake Shetek State Park.

Ranger Robert Rosengren said today every hunter bagged a deer and all but two were bucks. What's more, three of the bucks were

It was the first time in memory hunters had been allowed into the park. DNR opened it to controlled hunting this year because the... herd had grown to the place where it was damaging vegetation. Two special hunts were scheduled, one Nov. 28-Dec. 4 and the other Dec. 5-13. The only firearms permitted were muzzle loading rifles.

Rosengren said there were absolutely no problems. "People who use muzzle loaders seem to be more calm and collected than other deer hunters," he said. "They don't rush around and they don't shoot at each other. They just go about their business calmly."

In the first hunt a total of 10 permits were issued. Two hunters did not show up for some reason or other but the remaining eight all filled out. There were 11 permits issued for the second hunt and all were successful well before the final day.

Rosengren, whose job includes making a recommendation for next year, said he is at present uncertain what that recommendation will be. "I would like to have seen more does taken," he said, "but when a hunter sees that big animal with the hat rack, he takes it." are greated to a conference of the first of the

Because of the high percentage of bucks taken it is likely the herd will be back up to the same level come next year.

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Lake Shetek State Park Loon Wildlife Lake Area Shetek Island Boat Ramp Park Lake Trailer . Sanitation Wilderness *Campground Private Swimmind Keeley Beac Island Property Walk In Camping Monument Boy Smith Lake Lake Shetek HIKING TRAILS Restricted NO HUNTING 2000

MUZZLELOADER DEER HUNT LAKE SHETEK STATE PARK

Welcome to Lake Shetek State Park. As stated in DEER MANAGEMENT POLICY - MINNESOTA STATE PARKS there are three aspects to deer populations within State Parks:

1. Park visitors enjoy seeing deer.

2. Too many deer can destroy park vegetation.

3. Over populations of deer bring about starvation conditions. A high local deer population has caused severe vegetative damage and resulted in crop depredation complaints. Therefore it has been determined that a hunt is necessary for herd control.

RULES AND REGULATIONS

All hunting and park regulations apply.

State Park vehicle permits are required on all vehicles.

All hunters must check in and out daily. The clipboard for this will be located inside the orange box mounted on the outside wall of the shop/office. Any changes or additional information will be posted here. You are responsible for checking this.

All deer taken must be registered at the Park Office.

Remember that you may not shoot anything other than deer when in the Park.

Three barricades have been set up. These roadblocks are designed to add to the quality of your hunt. No vehicles will enter these areas without permission from park personnel. Do not park in such a way as to block any acess points. All vehicular traffic is restricted to designated roads only.

If you choose to empty your muzzleloader at the end of your hunting day, or to fire at any time; you must be within a huntable area and this must be done after sunrise and before or at sunset.

Upon registration/orientation you will receive a handout map. The Park boundaries and the boundary of the 66 acre wildlife management unit located south of the Park are indicated with a black line. Within these boundaries the dark shaded areas are huntable. The three areas in red are restricted. The waters of Lake Shetek are out of bounds.

Hunt with care, courtesy, and sportsmanship. Good luck and good hunting:

STATE OF MINNESOTA

Office Memorandum

DEPARTMENT Natural Resources - Parks

Charles Mitchell

Region IV Parks Supervisor

Copies to all concerned

FROM

: Robert Rosengren, Mgr.

Lake Shetek State Park al Hologo

SUBJECT:

Shetek Muzzlelloader Deer Hunt

507-763-3256 PHONE:

DATE: December 17, 1981

The 1981 Shetek State Park Muzzlelloader Deer Hunt was a success. Twenty one special permits were issued; with a 16 day time frame, either sex framework consistent with other Region IV hunts. In the first 7 day period, Saturday November 28 to Friday December 4; 8 hunters harvested 7 antlered deer and 1 male fawn. Two hunters did not show, for reasons unknown to us. In the second nine day period, Saturday December 5 to Sunday December 13; (All hunters filled by December 11) 11 hunters took 11 deer, including 9 antlered bucks, 1 small adult doe and 1 female fawn. All totaled, 19 hunters took 19 deer, of which 16 were antlered animals. An eleven pointer was the largest. It is guesstimated that 150+ deer were present in the park at the beginning of the hunt. Possibly maybe 25 of these animals were nonresidents which came into the park due to the early snowfall and farm crops being out.

First Season Accomplishments/Observations

- 1. A muzzlelloader season was/is possible, compatable, and acceptable to the public. Public resistence to the hunt and disruption to park users was minimal. There was enough snowfall for winter activities, during part of the hunt. Half a dozen skiers were content to tour the picnic area and campgrounds. The snowmobile trails remained closed without a challenge. Since 1978 the earliest date that the snowmobile trails have been opened was December 7, 1978. Parks and deer hunting seem to be compatable; particularly if everyone is informed as to its being needed and is benificial to the park.
- 2. No problems were encountered with hunters, park users, or the hunt structure within the park. During the year two neighboring farmers complained at the park office of crop depredation.
- 3. The deer were not pressured out of the park during the seven days that hunters were actually present. Numerous areas were only hunted once and the 66 acre wildlife management unit was not hunted at all. No hunter hunted more then 3 days, most hunted only one day.

Recommendation For A 1982 Hunt

The hunt goal was not accomplished under the restrictions of the two hunt periods of the 7 or 9 days which allowed an animal of either sex to be taken. Hunters were able to be so selective that only 2 female animals were removed. Although 19 mouths were removed, the reproductive potential of the herd was virtually not impacted. Deer Management Policy - Minnesota State Parks, 6-03-81 states "Hunting, if allowed, will be carried out with the intent of reducing the herd to desirable numbers and not for the purpose of yielding sport over a period of years". Depending on deer population levels, we submit that an annual hunt may be necessary, at least for a time.

Therefore, we propose a varience from what has been the standard muzzlelloader hunt season of Region IV, in 1981. It is our assumption that the 1982 season will again be 16 days long, from November 27 to December 12. If so, then we propose an antierless hunt only with 3 hunt periods of 3,4, and 5 days in length with 15 hunters each period by special permit only. The three period dates would be:

Saturday November 27 - Monday November 29 15 hunters antlerless 3 days Thursday December 2 - Sunday December 5 4 days 15 hunters antlerless Wednesday November 8 - Sunday December 12 5 days 15 hunters antlerless Each hunt period would include a weekend and at least one week day. More hunters would be accomodated, which equals a higher harvest. It appears that no more then 15 hunters should be allowed so as not to pressure the deer out of the park and not to reduce the quality of the hunt with too many red coats afield. The antlerless possibility was mentioned to some of the hunters as a posibility in 1982; they responded that they would like to come back. The deer populationwould not be harrased for two days between periods. Personnel could have days off, etc.

We have had many discussions on the hunt with Area Wildlife Manager Earl Johnson. This proposed framework seems to be the best solution that we could come up with at this time. (An alternate, if there is a need to be more consistent with other muzzlelloader hunts, is a 7 day and a 9 day hunt with 15 hunters each, ANTLERLESS ONLY.

We wish to thank Earl and everyone for the help and assistance which they gave in making the 1981 hunt a success.

IN THE REGION

Shetek deer season termed 'success'

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SF-00006-01

DEPARTMENT OF NATURAL RESOURCES

Frank Knoke-Box 39

STATE OF MINNESOTA

Office Memorandum

TO

Wayland Porter

Park Systems Manager

DATE: 6-12-81

FROM :

Charles Mitchell

Region IV Parks Supv.

PHONE-

SUBJECT:

Deer hunting - Lake Shetek State Park

On Monday afternoon Larry Nelson and I met with Al Hodapp, Assistant Park Manager, Earl Johnson, Area Wildlife Manager, Bob Beck, Ed Brekke-Kramer, and others from Wildlife to discuss a possible special deer hunting season at Lake Shetek State Park.

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We perceive a need to control and reduce the herd size at Lake Shetek primarily because of serious overbrowsing. There is virtually no reproduction of trees, shrubs and certain other plants because of the concentration of deer. There is also a problem with large numbers of deer migrating to the park during bad winter weather. We have a 40 acre food plot in the park primarily to deal with the depredation on neighboring farms which this concentration causes.

We do not have adequate data on population at this time to know precisely how many deer should be removed and at what times. We do know, however, that the problem is serious and that further delay will make it worse. Therefore, we decided that it is time to break the ice and have a hunt to set a precedent and give us the opportunity to evaluate the effects on the deer herd and on public opinion.

Specifically we are recommending a special muzzle loader season which would be split into two sections with two drawings for 10 hunters in each time period. The seasons would be November 28 to December 4, and December 5 to December 13. This would be handled in the usual way with applicants for the two hunts sending their cards directly to the park.

This should provide a high quality, "primitive" hunt which is in keeping with the State Park image. We will put out press releases and meet with interested local groups to explain the reasons for the season. We do not anticipate any serious opposition. We also plan to build an exclosure in the park to demonstrate the overbrowsing problem.

Section of Wildlife needs a decision from the Division of Parks and Recreation very soon so that they can proceed with their season setting. Please advise me as soon as possible as to your decision.

CM:1sg

c.c. Larry Nelson
Maynard Nelson
Frank Knoke
Bob Rosengren

Bob Beck Ed Brekke-Kramer Leo Haseman Dennis Thompson

Leroy Rutske

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Dept. of Natural Resources Div. of Parks & Recreation

Box 39

STATE OF MINNESOTA

Office Memorandum

DEPARTMENT OF NATURAL RESOURCES

TO : Wavlar

Wayland Porter

Park Systems Manager

DATE: 6-12-81

FROM

Charles Mitchell

Region IV Parks Supv

HONE:

SUBJECT:

Deer hunting - Lake Shetek State Park

On Monday afternoon Larry Nelson and I met with Al Hodapp, Assistant Park Manager, Earl Johnson, Area Wildlife Manager, Bob Beck, Ed Brekke-Kramer, and others from Wildlife to discuss a possible special deer hunting season at Lake Shetek State Park.

We perceive a need to control and reduce the herd size at Lake, Shetek primarily because of serious overbrowsing. There is virtually no reproduction of trees, shrubs and certain other plants because of the concentration of deer. There is also a problem with large numbers of deer migrating to the park during bad winter weather. We have a 40 acre food plot in the park primarily to deal with the depredation on neighboring farms which this concentration causes.

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ADMIN 1000 (Rev. 1/78)

STATE OF MINNESOTA

DEPARTMENT Natural Resources - Parks & Rec.

Office Memorandum

TO

: Frank Knoke

Environmental Specialist

DATE: 31 May 1979

FROM

Ed Brekke-Kramer

Resource Coordinator, Reg. 1V

PHONE: 354-2196

SUBJECT:

Food Plots in Region 1V State Parks

The table below includes information on all parks in need of food plots this year and Sibley, which is still leasing, and Blue Mounds, where a problem may develop in the near future.

Population reports that I had been getting from managers were only actual aerial count figures. I have included a 35% increase to the fixed-wing aerial winter counts, based on the fixed-wing, rotary-wing, and collared counts made at Lac Qui Parle refuge. The Lac Qui Parle data indicates that fixed-wing counts are about 50% less than actual herd numbers. Since the cover at Lac Qui Parle is heavier than at our State Parks, fixed-wing counts for the parks should be closer than 50%.

The number of deer sustained per acre (deer/acre) has been determined for the period 1 Dec. to 31 Mar. I have added a 50% acreage increase for the period 1 Oct. to 1 Dec. I have also added a 25% acreage increase to allow for usage by other animals. These additions should provide food after 1 Feb., when many food plots were clean last year.

The Lac Qui Parle acreage should not be used, or should be used only in small fields of about 8 acreas or less. Large fields invite the goose flocks and nothing will remain for the winter. Both the park manager and the game managers would be happy with two 8 acre plots and supplemental feeding.

'Hunter days of recreation' is based, in part, on data from 1976 which was considered a low hunter pressure year, and is therefore a low estimate.

cc: Charlie Mitchell

	Fix:	ed-wing +35%	count	5		+25%	Area	serv	iced. mi ²
			Deer/acre for corn Basic acreage +50%			Area serviced, mi ² Hunter days of recreation ACRES PLANTER			
Shetek -	247	333	13.4	24.8	37.2	46.5	150	1056	46
Sibley	104	140	12.7	11.0	16.5	20.6	28	287	lear agreement
Flandrau	134	181	14.9	12.1	18.2	22.7			22
Upper Sioux Agency	200	270	11.9	22.7	34.0	42.5	75	390	30
Camden	250	338	13.4	25.2	37.8	47.2	190	1157	30
Kilen Woods	114	154	13.4	11.5	17.2	21.6	175	581	6
Traverse des Sioux	43	58	14.9	3.9	5.8	7.3	80	390	-0
Blue Mounds	118	159	13.4	11.9	17.8	22.2	75	299	-
Lac Qui Parle	200	270	11.9	22.7	34.0	42.5	75	468	16

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Dept. of Natural Resources Div. of Parks & Recreation

STATE OF MINNESOTA

DEPARTMENTNatural Resources - Parks & Rec.

Office Memorandum

TO :Frank Knoke
Environmental Specialist

DATE: 8 June 1979

FROM :Ed Brekke-Kramer
Resource Coordinator, Reg. IV

SUBJECT: Food Plots in Reg. IV State Parks

How about a couple more variables?

All the acreage figures on my 31 May memo are for corn acreage. Any crop rotation will require more acres for the same food value. If the rotation crop is one that has been measured for value to deer, then the total food plot value will be close to the basic corn acreage +50%. For example, if you used half of the 46.5 acres at Shetek for rotation with one of these crops, it would reduce the food value of 46.5 acres of corn to something close to 37.2 acres of corn. The rotation crops may not be used to the same extent by other animals, but may also be less available under a snow cover.

Office Memorandum

Trank Knoke Jelfeloed Istaematrivel

Ed Preddon-Kramer A Resource Coordinator, Reg. IV

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