

APPENDIX A: CONSULTATION LETTERS



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

January 13, 2005

Mr. and Mrs. Allen Annis
506 Shouse
Covina, CA 97124

Subject: Public Workshops for the Wind Cave National Park Black-tailed Prairie Dog
Management Plan/Environmental Assessment

Dear Mr. and Mrs. Annis:

The purpose of this letter is to inform you that Wind Cave National Park (WICA) is preparing a Black-tailed Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dog populations within the park and to invite you to participate in one of the public workshops for this plan/EA that will be held February 1 and 2, 2005.

The purpose of these workshops is to determine the scope of the environmental issues and alternatives to be addressed in the plan and to receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota.

These public workshops will include (1) informational presentations including posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion groups where participants can discuss their thoughts and concerns about the plan and planning process. The interactive small group process will give each participant an opportunity to contribute to the planning process. Please note that this will differ from an "open microphone" public forum so that all perspectives can be presented within the limited time available. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible.

If you are unable to attend one of the scoping workshops, you may submit written comments by traditional mail or through the National Park Service website at <http://parkplanning.nps.gov/>.

Once the public workshops are held, alternatives will be developed that meet the plan objectives and goals to the greatest extent possible. The alternatives will emphasize different approaches that may differ in the size of the prairie dog population in the park. Ongoing changes in habitat availability will be addressed in the cumulative impact analysis in the EA. While specific action alternatives for prairie dog management have not yet been defined, potential actions to manage the prairie dog population in the park that could be incorporated into planning alternatives include the following:

- Natural predators (using species currently present or reintroduced predators, such as black-footed ferrets)
- Natural barriers (topography, vegetation, soils)
- Physical barriers
- Lethal control
- Live trapping or vacuum collection with relocation or donation to the ferret breeding program
- Buffer zones
- Other species grazing levels
- Vegetation manipulation (i.e. mowing, fire, mechanical thinning)

The alternatives developed will recognize the need to coordinate the actions of this plan with other park wildlife management plans that are under development.

Please call Dan Roddy, Resource Management Specialist, of my staff at 605-745-1157 if you have any questions.

Sincerely,



Linda L. Stoll
Superintendent



United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

IN REPLY REFER TO:

January 13, 2005

Mayor Stickney
City Hall
622 Crook St.
Custer, SD 57730

Subject: Public Workshops for the Wind Cave National Park Black-tailed Prairie Dog
Management Plan/Environmental Assessment

Dear Mayor Stickney:

The purpose of this letter is to inform you that Wind Cave National Park (WICA) is preparing a Black-tailed Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dog populations within the park and to invite you to participate in one of the public workshops for this plan/EA that will be held February 1 and 2, 2005.

The purpose of these workshops is to determine the scope of the environmental issues and alternatives to be addressed in the plan and to receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota.

These public workshops will include (1) informational presentations including posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion groups where participants can discuss their thoughts and concerns about the plan and planning process. The interactive small group process will give each participant an opportunity to contribute to the planning process. Please note that this will differ from an "open microphone" public forum so that all perspectives can be presented within the limited time available. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible. If you are unable to attend one of the scoping workshops, you may submit written comments by traditional mail or through the National Park Service website at <http://parkplanning.nps.gov/>.

Once the public workshops are held, alternatives will be developed that meet the plan objectives and goals to the greatest extent possible. The alternatives will emphasize different approaches that may differ in the size of the prairie dog population in the park. Ongoing changes in habitat availability will be addressed in the cumulative impact analysis in the EA. While specific action alternatives for prairie dog management have not yet been defined, potential actions to manage the prairie dog population in the park that could be incorporated into planning alternatives include the following:

- Natural predators (using species currently present or reintroduced predators, such as black-footed ferrets)
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- Lethal control
- Live trapping or vacuum collection with relocation or donation to the ferret breeding program
- Buffer zones
- Other species grazing levels
- Vegetation manipulation (i.e. mowing, fire, mechanical thinning)

The alternatives developed will recognize the need to coordinate the actions of this plan with other park wildlife management plans that are under development.

Please call Dan Roddy, Resource Management Specialist, of my staff at 605-745-1157 if you have any questions.

Sincerely,



Linda L. Stoll
Superintendent



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

January 13, 2005

Mr. Tim Mentz, Historic Preservation Officer
Standing Rock Sioux Tribe
P. O. Box D
Fort Yates, ND 58538

Subject: Section 106 Consultation, Black-tailed Prairie Dog Management Plan / Environmental Assessment for Wind Cave National Park

Dear Mr. Mentz:

This letter is to notify you that Wind Cave National Park (WICA) is planning to prepare a Black-tailed Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dog populations within the park and to also invite you to participate in the public workshops for this plan/EA that will be held February 1 and 2, 2005. An environmental assessment will be prepared to evaluate the effects of the proposed action on the natural and human environments.

The purpose of these workshops is to provide additional information about the planning process and to receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota. If you are unable to attend one of the scoping workshops, you may submit written comments by traditional mail or through a National Park Service website at <http://parkplanning.nps.gov/>.

These public meetings will involve (1) posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding the past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion groups where participants can present their thoughts and concerns about the plan and planning process. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible. The National Park Service is aware that American Indians and other traditional groups may have concerns related to cultural sites, so government-to-government consultation has been initiated with

tribes that have expressed an interest in the park. This consultation is intended to ensure that mutually held goals for management of important natural and cultural resources are met.

In addition to planning work required by Section 106 of the National Historic Preservation Act, we have begun work on an environmental assessment that will study and assess the impacts to natural and cultural resources and determine any required mitigation. The EA will provide detailed descriptions of alternative ways of managing the prairie dog population in the park and, as required by law, a no action alternative. The EA also will analyze the potential impacts associated with possible implementation of each alternative and will describe the rationale for choosing the preferred alternative. These details will be reiterated in a Section 106 Summary in the EA. Also contained in the EA will be measures that would help avoid adverse effects on cultural resources.

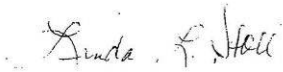
To help ensure that cultural resources included in or eligible for inclusion in the National Register are appropriately considered during preparation of the plan and the accompanying EA, we are initiating consultation with your office in accordance with 36 CFR 800, and with the 1995 Servicewide Programmatic Agreement between your office and the National Park Service. A similar letter has been sent under separate cover to your tribal chairperson to inform them of the project and to request a response should there be any concerns about ethnographic resources.

This letter also serves to notify your office that we plan to use the EA for the project to accomplish compliance for both Section 106 and the National Environmental Policy Act (as described in 36 CFR 800.8 (a-c)).

As soon as the EA is completed, we will send it to you for your review and comment. We look forward to your input on the planning process and believe that it will continue to result in better planning for cultural resources management, as well as helping to ensure that cultural resources are adequately considered during preparation of the plan and the accompanying EA.

If you have any questions regarding either the process in general or the public meetings, please contact me or Tom Farrell, our Section 106 Compliance Coordinator. We can both be reached at (605) 745-4600.

Sincerely,



Linda L. Stoll
Superintendent

cc: Parsons-Denver – D. Kellett, D. Rhodes, M. Johnson
cc: Craig Kenkel, MWR
cc: Mike Evans, MNRR



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

January 13, 2005

Mr. Duane Big Eagle, Chairman
Crow Creek Sioux Tribal Council
P. O. Box 50
Fort Thompson, SD 57339

Subject: Government-to-Government Section 106 Consultation, Prairie Dog Management
Plan / Environmental Assessment for Wind Cave National Park

Dear Mr. Big Eagle:

The purpose of this letter is to notify you that Wind Cave National Park (WICA) is planning to prepare a Black-tailed Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dog populations within the park and to also invite you to participate in the public workshops for this plan/EA that will be held February 1 and 2, 2005. An environmental assessment will be prepared to evaluate the effects of the proposed action on the natural and human environments.

The purpose of these workshops is to provide additional information about the plan and to receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota. We would like to invite you to participate in these public workshops. If you are unable to attend one of the scoping workshops, you may submit written comments by traditional mail or through a National Park Service website at <http://parkplanning.nps.gov/>.

These public workshops will involve (1) information presentations including posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion

groups where participants can present their thoughts and concerns about the plan and planning process. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible.

The park is aware that American Indians value Wind Cave National Park as a very special place, so we want to be sure to thoroughly evaluate potential effects to ethnographic resources valued by your tribe. Therefore, this letter formally initiates government-to-government consultation in accordance with legislation, Executive Orders, regulations, and policy, including sections 101 and 106 of the National Historic Preservation Act of 1966 as amended, 36 CFR 800, National Park Service Management Policies and Director's Order 28, Cultural Resources Management (especially Chapter 10, Ethnographic Resources).

We have begun planning work required by Section 106 of the National Historic Preservation Act, and we will develop an environmental assessment that will study and assess the impacts to natural and cultural resources and determine any required mitigation. We believe that your participation will result in better planning for cultural resources management, and will help ensure that cultural resources valued by your tribe are adequately considered during the planning and design process and in preparation of the accompanying environmental assessment.

We believe that your participation will result in better planning for cultural resources management, and will help ensure that cultural resources are adequately considered during preparation of the plan and the accompanying environmental assessment. As soon as it is completed, a copy of the draft environmental assessment will be forwarded to your tribe for review and comment. We look forward to receiving your input on our plans and any concerns you have about the project. We would be pleased to discuss this project further, either by telephone or in a meeting.

If you have any questions regarding either the process in general or the public workshops, please contact me or Tom Farrell, our Section 106 Compliance Coordinator. We can both be reached at 605-745-4600.

Sincerely,



Linda L. Stoll
Superintendent

cc: Parsons-Denver – D. Kellett, D. Rhodes, M. Johnson
cc: Craig Kenkel, MWR
cc: Mike Evans, MNRR



IN REPLY REFER TO:

United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

January 13, 2005

Mr. Scott Larson
U.S. Department of the Interior
Fish and Wildlife Service
Ecological Services Division
420 S. Garfield Avenue, Suite 400
Pierre, South Dakota 57501-5408

Subject: Section 7 Consultation, Black-tailed Prairie Dog Management Plan / Environmental Assessment for Wind Cave National Park

Dear Mr. Larson:

The purpose of this letter is to notify you that Wind Cave National Park (WICA) is planning to prepare a Black-tailed Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dog populations within the park and to invite you to participate in the public workshops for this plan/EA that will be February 1, and February 2, 2005.

Discussions with the park staff and other interested parties have identified a number of management goals for the upcoming plan. Some of these relate to safety, economics, and visitor experience. However, a key goal for the National Park Service is to meet the mandate in the Organic Act, which established the National Park Service in 1916. The Organic Act states that the National Park Service must "conserve the scenery and the natural and historic objects and the wild life [in national parks] and to provide for the enjoyment of the same in such manner and by such means as will leave them unimpaired for the enjoyment of future generations."

The National Park Service hosted internal scoping meetings during December 2004, and are now announcing public scoping workshops. The purpose of these workshops is to provide additional information about the plan and receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota.

The workshops will involve (1) information presentations including posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion groups where participants can present their thoughts and concerns about the plan and planning process. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible.

Once the public workshops are held, alternatives will be developed that meet the plan objectives and goals to the greatest extent possible. The alternatives will emphasize different approaches that may differ in the size of the prairie dog population in the park. Ongoing changes in habitat availability will be addressed in the cumulative impact analysis in the EA. While specific action alternatives for prairie dog management have not yet been defined, potential actions to manage the prairie dog population in the park that could be incorporated into planning alternatives include the following:

- Natural predators (using species currently present or reintroduced predators, such as ferrets)
- Natural barriers (topography, vegetation, soils)
- Physical barriers
- Lethal control
- Live trapping or vacuum collection with relocation or donation to the ferret breeding program
- Buffer zones
- Other species grazing levels
- Vegetation manipulation (i.e. mowing, fire, mechanical thinning)

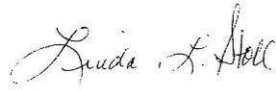
The alternatives developed will recognize the need to coordinate the actions of this plan with other park wildlife management plans that are under development.

To meet our Endangered Species Act (ESA) Section 7 consultation requirements for the EA, we respectfully request that you provide us with the current listing and locations of endangered, threatened, proposed, and candidate species and any designated critical habitats specific to Wind Cave National Park.

This letter is the first step of consultation for this project to ensure that the planning effort adequately addresses ESA Section 7 requirements related to the Wind Cave National Park Black-tailed Prairie Dog Management Plan/EA. When the draft EA is complete, a copy will be sent to you with an official transmittal letter requesting your review and comment.

We look forward to working cooperatively with you on the planning and implementation of this project. Please call Dan Roddy, Resource Management Specialist, of my staff at 605-745-1157 if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda Stoll".

Linda Stoll
Superintendent

cc: Parsons-Denver – D. Kellett, M. Johnson



United States Department of the Interior

NATIONAL PARK SERVICE
Wind Cave National Park
RR 1, Box 190
Hot Springs, South Dakota 57747

IN REPLY REFER TO:

January 13, 2005

Mr. Jay D. Vogt, SHPO
State Historic Preservation Office
Cultural Heritage Center
900 Governors Drive
Pierre, SD 57501

Subject: Section 106 Consultation, Black-tailed Prairie Dog Management Plan / Environmental Assessment for Wind Cave National Park

Dear Mr. Vogt:

The purpose of this letter is to notify you that Wind Cave National Park (WICA) is planning to prepare a Black-tailed Prairie Dog Management Plan / Environmental Assessment (EA) for managing prairie dog populations within the park and to also invite you to participate in the public workshops for this plan/EA that will be held on February 1 and 2, 2005. An important purpose of the prairie dog management plan will be to identify and implement measures that will result in a healthy prairie dog population similar to the natural range of conditions that occurred in the park area prior to European settlement. An environmental assessment will be prepared to evaluate the effects of the proposed action on the natural and human environments.

The purpose of these workshops is to provide additional information about the planning process and to receive input from interested individuals and organizations. The workshops will be held on Tuesday, February 1, 2005, from 6:30 P.M. to 9:00 P.M. at the Quality Inn, located at 1902 N. LaCrosse in Rapid City, South Dakota, and on Wednesday, February 2, 2005, from 6:30 P.M. to 9:00 P.M. at the Bavarian Inn, located at Highway 16 and U.S. 385 North in Custer, South Dakota.

These public meetings will involve (1) posters and other materials to inform participants about various issues and methods associated with prairie dog management, (2) short presentations by park staff regarding the past and current conditions related to the black-tailed prairie dog population in Wind Cave National Park, and (3) facilitated small discussion groups where participants can present their thoughts and concerns about the plan and planning process. For the workshops to run smoothly, the National Park Service asks that all attendees arrive on time and stay for the entire meeting, if possible.

The National Park Service is aware that American Indians and other traditional groups may have concerns related to cultural sites, so government-to-government consultation has been initiated with tribes that have expressed an interest in the park. This consultation is intended to ensure that mutually held goals for management of important natural and cultural resources are met.

In addition to planning work required by Section 106 of the National Historic Preservation Act, we have begun work on an environmental assessment that will study and assess the impacts to natural and cultural resources and determine any required mitigation. The EA will provide detailed descriptions of alternative ways of managing the prairie dog population in the park and, as required by law, a no action alternative. The EA also will analyze the potential impacts associated with possible implementation of each alternative and will describe the rationale for choosing the preferred alternative. These details will be reiterated in a Section 106 Summary in the EA. Also contained in the EA will be measures that would help avoid adverse effects on cultural resources.

To help ensure that cultural resources included in or eligible for inclusion in the National Register are appropriately considered during preparation of the plan and the accompanying EA, we are initiating consultation with your office in accordance with 36 CFR 800, and with the 1995 Servicewide Programmatic Agreement between your office and the National Park Service.

This letter also serves to notify your office that we plan to use the EA for the project to accomplish compliance for both Section 106 and the National Environmental Policy Act (as described in 36 CFR 800.8 (a-c)).

As soon as the EA is completed, we will send it to you for your review and comment. We look forward to your input on the planning process and believe that it will continue to result in better planning for cultural resources management.

If you have any questions regarding either the process in general or the public meetings, please contact me or Tom Farrell, our Section 106 Compliance Coordinator. We can both be reached at (605) 745-4600.

Sincerely,



Linda L. Stoll
Superintendent

cc: Parsons-Denver – D. Kellett, D. Rhodes, M. Johnson



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Ecological Services
420 South Garfield Avenue, Suite 400
Pierre, South Dakota 57501-5408

March 31, 2005

MEMORANDUM

To: Linda L. Stoll, Superintendent, National Park Service
Wind Cave National Park; Hot Springs, South Dakota

From: Donald R. (Pete) Gober, Field Supervisor, Fish and Wildlife Service
South Dakota Ecological Services Field Office; Pierre, South Dakota

Subject: Black-Tailed Prairie Dog Management Plan/Environmental Assessment for Wind Cave National Park

This responds to your January 13, 2005, letter notifying the Fish and Wildlife Service (Service) of your intent to prepare a Prairie Dog Management Plan and Environmental Assessment (EA) for managing prairie dogs within the Wind Cave National Park (Park). The letter requests a current listing of endangered, threatened, proposed, and candidate species and designated critical habitat specific to the Park.

Endangered Species List

In accordance with section 7(c) of the Endangered Species Act, as amended, 16 U.S.C. 1531 et seq., we have determined that the following federally listed species may occur in the project area or in the nearby counties (this list is considered valid for 90 days):

<u>Species</u>	<u>Status</u>	<u>Expected Occurrence</u>
Bald eagle (<u>Haliaeetus leucocephalus</u>)	Threatened	Migration, Winter Resident, Possible Nesting.
Black-footed ferret (<u>Mustela nigripes</u>)	Non-Essential Experimental	Resident in Eastern Pennington County. None in Custer County.

Bald eagles occur throughout South Dakota, and new nests are appearing each year. No construction should occur within one-quarter mile of any known active bald eagle nest. The species' nesting season is January to August. Any nests found should be reported to this office. There has been nesting activity in Custer State Park near Stockade Lake in recent years, but we do not know of any nests in the Park.

Black-footed ferrets have been reintroduced in eastern Pennington County. These populations have been designated as non-essential experimental populations in that part of Pennington County as well as all or parts of Dewey, Gregory, Jackson, Mellette, Shannon, Todd, Tripp, and Ziebach Counties. To our knowledge, no extant populations of black-footed ferrets reside in the Park or in Custer County. However, prairie dog management plans may have the potential to

provide benefits to black-footed ferrets in that management plans can provide direction to accommodate a black-footed ferret reintroduction in the future. As you may know, the status of black-footed ferrets throughout North America is tenuous, and the Service is continually searching for potential reintroduction sites. Therefore, we encourage the Park to consider opportunities for future black-footed ferret reintroductions as the Park Prairie Dog Management Plan is developed.

If the National Park Service determines that the proposed study "may adversely affect" listed species in South Dakota, it should request formal consultation from this office. If a "may affect - not likely to adversely affect" determination is made for this project, it should be submitted to this office for concurrence. If a "no effect" determination is made, further consultation may not be necessary. However, a copy of the determination should be sent to this office.

The Service appreciates the opportunity to provide comments on this proposal. If you have any questions on these comments, please contact Scott Larson of this office at (605) 224-8693, Extension 32.



ACTING

APPENDIX B: STOCKING RATE AND FORAGE PRODUCTION TABLES

STOCKING RATES (AUMs) FOR RANGE SITES (NRCS TECHNICAL GUIDES, 1993)

Range Site	Late Seral (Excellent)	Late Intermediate (Good)	Early Intermediate (Fair)	Early Seral (Poor)
Subirrigated	2.6	2.0	1.3	0.65
Overflow	1.0	.75	0.5	0.25
Loamy Terrace, Mountain Prairie, Savannah, Silty, Stony Hills	0.8	0.6	0.4	0.2
Clayey	0.7	0.52	0.35	0.17
Shallow	0.6	0.45	0.3	0.15
Thin Upland	0.5	0.37	0.25	0.12
Thin Claypan	0.28	0.21	0.14	0.07

FORAGE PRODUCTION WITH DOGTOWN VEGETATION CONDITION TREND FROM LATE INTERMEDIATE TO EARLY INTERMEDIATE OR EARLY SERAL STAGE.											
Number of acres trending to earlier seral stage	Stocking rate per acre, late seral	AUMs available, late seral	Stocking rate per acre, late intermediate	AUMs available, late intermediate	Stocking rate per acre, early intermediate	AUMs available, early intermediate	Stocking rate per acre,	AUMs available, early seral stage	Total AUMs at park, late intermediate seral stage,	Total AUMs at park with dogtowns trending from late intermediate to early intermediate seral stage	Total AUMs at park with dogtowns trending from late intermediate to early seral stage
300	0.8	240	0.6	180	0.4	120	0.2	60	10065	10005	9945
500	0.8	400	0.6	300	0.4	200	0.2	100	10065	9965	9865
750	0.8	600	0.6	450	0.4	300	0.2	150	10065	9915	9765
1000	0.8	800	0.6	600	0.4	400	0.2	200	10065	9865	9665
1250	0.8	1000	0.6	750	0.4	500	0.2	250	10065	9815	9565
1500	0.8	1200	0.6	900	0.4	600	0.2	300	10065	9765	9465
1750	0.8	1400	0.6	1050	0.4	700	0.2	350	10065	9715	9365
2000	0.8	1600	0.6	1200	0.4	800	0.2	400	10065	9665	9265
2200	0.8	1760	0.6	1320	0.4	880	0.2	440	10065	9625	9185
2250	0.8	1800	0.6	1350	0.4	900	0.2	450	10065	9615	9165
2500	0.8	2000	0.6	1500	0.4	1000	0.2	500	10065	9565	9065
2750	0.8	2200	0.6	1650	0.4	1100	0.2	550	10065	9515	8965

FORAGE PRODUCTION WITH DOGTOWN VEGETATION CONDITION TREND FROM LATE INTERMEDIATE TO EARLY INTERMEDIATE OR EARLY SERAL STAGE.											
Number of acres trending to earlier seral stage	Stocking rate per acre, late seral	AUMs available, late seral	Stocking rate per acre, late intermediate	AUMs available, late intermediate	Stocking rate per acre, early intermediate	AUMs available, early intermediate	Stocking rate per acre,	AUMs available, early seral stage	Total AUMs at park, late intermediate seral stage,	Total AUMs at park with dogtowns trending from late intermediate to early intermediate seral stage	Total AUMs at park with dogtowns trending from late intermediate to early seral stage
3000	0.8	2400	0.6	1800	0.4	1200	0.2	600	10065	9465	8865
3250	0.8	2600	0.6	1950	0.4	1300	0.2	650	10065	9415	8765
3500	0.8	2800	0.6	2100	0.4	1400	0.2	700	10065	9365	8665
3750	0.8	3000	0.6	2250	0.4	1500	0.2	750	10065	9315	8565
4000	0.8	3200	0.6	2400	0.4	1600	0.2	800	10065	9265	8465
4250	0.8	3400	0.6	2550	0.4	1700	0.2	850	10065	9215	8365
4500	0.8	3600	0.6	2700	0.4	1800	0.2	900	10065	9165	8265
4750	0.8	3800	0.6	2850	0.4	1900	0.2	950	10065	9115	8165
5000	0.8	4000	0.6	3000	0.4	2000	0.2	1000	10065	9065	8065
8566	0.8	6853	0.6	5140	0.4	3426	0.2	1713	10065	8351.8	6638.6



As the nation's principal conservation agency, the Department of the Interior has the responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

NPS January 2006