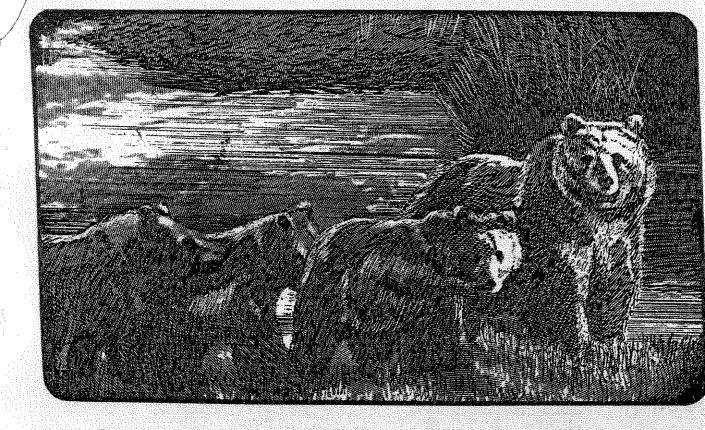
Interagency Grizzly Bear Guidelines





This is an animal that cannot compromise or adjust its way of life to ours. Could not by its very nature, could not even if we allowed it the opportunity, which we did not. For the grizzly bear there is no freedom but that of unbounded space, no life except its own. Without meckness, without a sign of humility, it has refused to accept our idea of what the world should be like. If we succeed in preserving the wild remnant that still survives, the glory will rest primarily on this bear whose stubborn vigor has kept it alive in the face of increasing and seemingly hopeless odds.

-adapted from Robert Porter Allen

DOCUMENT PREPARATION

This document has been in various stages of development since 1975. As a result, many individuals have contributed significantly to its final form. The Shoshone National Forest was the lead unit in preparation of the guidelines. Specific management measures were developed in close consultation with bear researchers and the various National Park, National Forest, Fish and Wildlife Service, Bureau of Land Management and State wildlife agency units involved. Collation, editing and writing which resulted in the final Yellowstone Area document were done by Stephen P. Mealey.

Following publication of an overview of the Guidelines in the Federal Register and public meetings in 1985, the Interagency Grizzly Bear Committee approved four changes which have been incorporated into this document.

1986

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PREFACE

These guidelines were developed as an interagency effort initially in the Greater Yellowstone Area. The guidelines were submitted to the U.S. Fish and Wildlife Service for formal consultation as required by 50 C.F.R., Sec. 402.04. The Biological Opinion states, "It is our opinion that implementation of the <u>Guidelines</u> will promote conservation of the grizzly bear." The Biological Opinion is enclosed as an appendix to the guidelines.

The Interagency Grizzly Bear Committee approved the application of these guidelines on National Forest System, Bureau of Land Management, and National Park System lands throughout grizzly bear ecosystems in the States of Idaho, Montana, Washington, and Wyoming. The guidelines are known as the Interagency Grizzly Bear Guidelines.

FOREWORD

There are many different images of the grizzly bear in the public view. Visions of fear and intimidation are often expressed along with those of beauty and respect.

In general, the public attitude toward grizzlies, as expressed through laws and regulations, has changed significantly during the last two decades. Officially, the grizzly can no longer be treated uniformly as an enemy and marauder to be killed without regulation or otherwise condemned as a result of actual or anticipated conflict with man. Instead, the species is now highly valued for its own sake and for the sake of maintaining ecosystem stability through species abundance and diversity. In addition, the grizzly is highly valued as a representative, perhaps an indicator, of truly wild places which anchor the human conscience in images of human and nonhuman origins and pristine ecosystem functioning.

The resource management agencies are proud to accept the management charge of the Endangered Species Act to conserve the grizzly bear, a threatened species. These management guidelines will serve as the basis for our aggressive pursuit of the objectives of conserving grizzly bears and their habitat and of providing balanced resource uses to meet the overall management goal of providing a sustained flow of all wildland resources.

I. INTRODUCTION

The Endangered Species Act (ESA) (P.L. 93-205) requires special protection and management on Federal lands for the grizzly bear (<u>Ursus arctos horribilis</u>), a threatened species. Federal and State personnel cooperatively developed guidelines for grizzly protection and management in the National Forests, National Parks, and Bureau of Land Management lands in the grizzly bear ecosystems in compliance with ESA.

II. BACKGROUND

On August 1, 1975, the grizzly bear south of Canada was determined to be a threatened species by the Secretary of Interior under ESA authority. This determination required Federal agencies to:

- 1. utilize their authorities to carry out conservation programs for listed species;
- 2. insure that their activities not jeopardize the continued existence of a listed species; and,
- 3. insure that their activities or program not result in the destruction or adverse modification of critical habitat.

III. POLICY

A. Park Service Grizzly Bear Policy

Management policies of the National Parks are designed to:

- 1. restore and maintain the natural integrity, distribution and behavior of bears in the parks.
- 2. provide for visitors to understand, observe and appreciate bears,
- 3. provide for visitor safety by minimizing bear/human conflict by reducing human-generated food sources and by regulating visitor distribution.

Specifically, the Park Service will identify, within Park boundaries, grizzly habitat requirements. As necessary, the Service shall control visitor use and access to such habitat, including closure to entry for other than official purposes. Active management programs, where necessary, will be carried out to perpetuate the national distribution and abundance of grizzlies and the ecosystems on which they depend, in accordance with existing Federal laws. The Service will cooperate with the Fish and Wildlife Service, which is recognized as the lead agency in matters pertaining to threatened or endangered species.

Management actions for the protection and perpetuation of grizzly bears shall be incorporated into the resources management plan for the pertinent National Parks. The Bear Management Programs will complement and supplement these Guidelines.

B. Forest Service Grizzly Bear Management Policy

The Forest Service (FS) is committed to helping achieve recovery of the grizzly bear by carrying out active conservation programs in close cooperation with the States, U.S. Fish and Wildlife Service, National Park Service, Bureau of Land Management, and other agencies and groups.

The principal role of the Forest Service is to manage the habitat on the National Forests in a way that recovery can be accomplished. In helping to achieve recovery, the FS will establish and implement uniform planning and management procedures including:

1. A grizzly bear habitat mapping and cumulative effects analysis process (a tool for assessing effects of land management activities in time and space on occupied grizzly bear habitat.)

2. The resource management guidelines and grizzly management situations as established in the "Interagency Grizzly Bear Management Guidelines" (Guidelines).

3. Quantification of recovery objectives in Forest Plans including: (a) the amount of habitat needed for recovery, expressed as habitat capability when possible, and (b) objectives to decrease preventable human-caused mortalities.

The FS will emphasize actions which contribute toward conservation and recovery of the bear within areas identified in the Grizzly Bear Recovery Plan. Objectives are to maintain and enhance habitat and to minimize potential for grizzly-human conflicts. The FS will manage habitats essential to bear recovery for multiple land use benefits, to the extent these land uses are compatible with the goal of grizzly recovery.

Land uses which cannot be made compatible with the goal of grizzly recovery, and are under FS control, will be redirected or discontinued. Management guidelines and objectives, the cumulative effects process, and goals for habitat capability and mortality will be used to guide activities which are compatible with grizzly bear recovery. It is also the policy of the Forest Service to facilitate recreation use in occupied grizzly habitat to the extent such levels or use are compatible with both human safety and grizzly recovery objectives. Emphasis will be placed on information programs to raise the awareness of National Forest users about proper behavior in grizzly habitat.

Policy on specific grizzly bear issues is found in Forest Service Manual 2670.

IV. GRIZZLY BEAR MANAGEMENT SITUATIONS

Five different grizzly management situations are described. All involved National Forest, National Park, and Bureau of Land Management (BLM) lands will be identified by appropriate situations. Each management situation fits a type of land area where unique:

- 1. grizzly populations and habitat conditions exist; and,
- 2. management direction applies.

Forest Supervisors, Park Superintendents, and BLM Area Managers will identify the different management situations areas in their respective areas of responsibility.

A. Management Situation 1

- 1. <u>Population and habitat conditions</u>. The area contains grizzly population centers (areas key to the survival of grizzly where seasonal or year-long grizzly activity, under natural, free-ranging conditions is common) and habitat components needed for the survival and recovery of the species or a segment of its population. The probability is very great that major Federal activities or programs may affect (have direct or indirect relationships to the conservation and recovery of) the grizzly.
- 2. <u>Management direction</u>. Grizzly habitat maintenance and improvement (improvement does not apply to Park Service), and grizzly-human conflict minimization will receive the highest management priority. Management decisions will favor the needs of the grizzly bear when grizzly habitat and other land use values compete. Land uses which can affect grizzlies and/or their habitat will be made compatible with grizzly needs or such uses will be disallowed or eliminated. Grizzly-human conflicts will be resolved in favor of grizzlies unless the bear involved is determined to be a nuisance. Nuisance bears may be controlled through either relocation or removal but only if such control would result in a more natural free-ranging grizzly population and all reasonable measures have been taken to protect the bear and/or its habitat (including area closures and/or activity curtailments).
- B. <u>Management Situation 2</u>
 - 1. <u>Population and habitat conditions</u>. Current information indicates that the area lacks distinct population centers; highly suitable habitat does not generally occur, although some grizzly habitat components exist and grizzlies may be present occasionally. Habitat resources in Management Situation 2 either are unnecessary for survival and recovery of the species, or the need has not yet been determined but habitat resources may be necessary. Certain management actions are necessary. The status of such areas is subject to review and change according to demonstrated grizzly population and habitat needs. Major Federal activities may affect the conservation of the grizzly bear

primarily in that they may contribute toward (a) human-caused bear mortalities or (b) long-term displacement where the zone of influence could affect habitat use in Management Situation 1.

2. Management direction. The grizzly bear is an important, but not the primary, use of the area. In some cases, habitat maintenance and improvement may be important management considerations. Minimization of grizzly-human conflict potential that could lead to human-caused mortalities is a high management priority. In this management situation, managers would accommodate demonstrated grizzly populations and/or grizzly habitat use in other land use activities if feasible, but not to the extent of exclusion of other uses. A feasible accommodation is one which is compatible with (does not make unobtainable) the major goals and/or objectives of other uses. Management will at least maintain those habitat conditions which resulted in the area being stratified Management Situation 2. When grizzly population and/or grizzly habitat use and other land use needs are mutually exclusive, the other land use needs may prevail in management consideration. In cases where the need of the habitat resources for recovery has not yet been determined, other land uses may prevail to the extent that they do not result in irretrievable/irreversible resource commitments which would preclude the possibility of eventual restratification to Management Situation 1. If grizzly population and/or habitat use represents demonstrated needs that are so great (necessary to the normal needs or survival of the species or a segment of its population) that they should prevail in management considerations, then the area should be reclassified under Management Situation 1. Managers would control nuisance grizzlies.

C. Management Situation 3

- 1. <u>Population and habitat conditions</u>. Grizzly presence is possible but infrequent. Developments, such as campgrounds, resorts or other high human use associated facilities, and human presence result in conditions which make grizzly presence untenable for humans and/or grizzlies. There is a high probability that major Federal activities or programs may affect the species' conservation and recovery.
- 2. <u>Management direction</u>. Grizzly habitat maintenance and improvement are not management considerations. Grizzly-human conflict minimization is a high priority management consideration. Grizzly bear presence and factors contributing to their presence will be actively discouraged. Any grizzly involved in a grizzly-human conflict will be controlled. Any grizzly frequenting an area will be controlled.

D. Management Situation 4

1. <u>Population and habitat conditions</u>. Grizzlies do not occur in the area but habitat and human conditions make the area potentially suitable for grizzly occupancy, and the area is needed for the survival and recovery of the species. The probability is very great that major Federal activities and programs may affect the species' conservation and recovery. 2. <u>Management direction</u>. The grizzly bear is an important potential use on the area. Grizzly habitat maintenance and improvement are important management considerations. Grizzly-human conflict minimization is not a management consideration. Habitat and human conditions making the area suitable for grizzly occupancy will not be degraded pending decisions regarding reestablishment of grizzlies.

E. Management Situation 5

- 1. <u>Population and habitat conditions</u>. Grizzlies do not occur, or occur only rarely in the area. Habitat may be unsuitable, unavailable, or suitable and available but unoccupied. The area lacks survival and recovery values for the species or said values are unknown. Major Federal activities and programs probably will not affect species conservation and recovery.
- 2. <u>Management direction</u>. Consideration for grizzly bears and their habitat in other resource related decisions is not directed. Maintenance of grizzly habitat is an option. Any grizzly involved in a grizzly-human conflict will be controlled.

V. GRIZZLY BEAR MANAGEMENT GUIDELINES

Grizzly management guidelines for each of five resource management systems are listed for each management situation. The guidelines are grouped under the headings:

- 1. Maintain and Improve Habitat:
- 2. Minimize Grizzly-Human Conflict Potential; and,
- 3. Resolve Grizzly-Human Conflicts.

The heading subjects are the major grizzly management objectives.

GUIDELINES ARE SUBJECT TO CHANGE AS RESEARCH PROVIDES ADDITIONAL DATA AND/OR. MANAGEMENT DIRECTIVES CHANGE.

These Guidelines and the attendant Management Situations represent a comprehensive and integrated approach to the goal of grizzly bear conservation. Although the context and direction for management may vary legitimately between Management Situations, management actions and human activities in MS 1 through MS 4 may influence grizzly bear conservation. The value of the Management Situation concept for grizzly bear management is most fully realized with proper stratification and implementation.

MGMT. SYSTEM OR ACTIVITY	MAINTAIN AND IMPROVE Habitat	MINIMIZE GRIZZLY-HUMAN Conflict Potential	RESOLVE GRIZZLV-HUMAN CONFLICTS
W11d1ffe Management	 Maintain close contact with research organizations to assure that current research data are being used in resource planning and administration affecting grizziles. 		Line Officers will be provided with instructions for: (1) fact finding, including: (a) determination of where, why, when, and how the conflict
••	 Complete a biological assessment (may use USDA Forest Service (1977) procedures and Interagency Cumulative Effects Assessment (1986)) of existing or proposed land uses (under the Recreation, Range, Timber and Fire and Min- erals, watershed and Special Uses Management Systems) which could affect grizzlies and/or their habitat. 	2.	 (b) who was involved; (c) determination of status of problem bear (nuisance or non-nuisance) considering unnatural food dependency and individual bear history, see Appendix page (2) grizzly control, including names and phone numbers of personnel from State wildlife management agencies and the U.S. Fish and Wildlife Service, page 51.
n	. Use cumulative effects analysis to assess spatial and temporal effects on habitat suitability and availability and mortality risk.	3.	ន រ ខ្លាំ ខ្លាំ ខ្លាំ
* ·	. Initiate consultation procedures with the U.S. Fish and Wildlife Service, as necessary, if the biological assessment results in a "may affect" determination. BLM should initiate consultation related to mineral leasing.	4.	<pre>(b) relocation, including maps or specific recommended relocation sites. Relocation plans with implications for National Parks, National Forests, and BLM lands will be reviewed and agreed upon by Park Service, and State wildlife manage- ment personnel.</pre>
۵. ۲	With full awareness of the Biological Opinion, recommend project or land use modification which will provide compatibility between grizzly bears and other land uses without degrading conditions for grizzlies. If projects or land uses cannot be made compatible, recommend project or use elimination.		
σ	With full awareness of the Biological Opinion, specify measures to be taken within the different resource management systems which will protect, maintain and improve (NF, BLM) babitat.		· · · · · · · · · · · · · · · · · · ·

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RESOLVE GRIZZLY-HUMAN CONFLICTS		an copnfiict different systems and o minimize	In cases of grizzly-human conflict, District Rangers in cooperation with state wildlife management agencies will immediately identify the cause by deter- ming where, why, when, and how the conflict occured. If the problem bear is not determined to be a nuisance then correct the problem immediately by re- moving the man-related causes. Likely man-related causes are grizzly attractants and/or human activities interfering with grizzly use of habitat Attractants include food and food odors associated with man, livestock carrion garbage, garbage dumps, prepared livestock and pet foods, camps or other deellings, grizzly use of habitat investock and pet foods, camps or other duellings, grizzly use of habitat investock and pet foods, camps or other deellings, grizzly use of burning or fire control (camps) which disrupt grizzly use of habitat and/or grizzly use of and from or permanent activity curtailment. If the problem bear is determined to be have been taken to protect the bear and habitat and a more natural grizzly	
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ATION: 1 MAINTAIN AND IMPROVE HABITAT	With full awareness of the Biological Opinion, specify measures to, be taken independent of other resource management systems, to improve grizzly bear management. For example, inform the public of agency grizzly bear management goals and objectives. Enlist their support in meeting these goals and objectives.	Monitor the application of these guidelines to assure they are properly and effectively used. Recommend improvements in guide- lines and application procedures.	All proposed logging and burning activities will be evaluated for their effects upon grizzlies and/ or their babitat. USDA forest Service procedures (1977) and Interagency Cumulative Effects Service procedures (1977) and Interagency Cumulative Effects Assessment (1986) may be used (NF burning) (See Wildlife Management, above). Timber sale and fire management EAs will specify agency prizzly management goals and objectives and measures to meet them. Contracts will include specific measures to protect, maintain and/or improve grizzly maintain and objectives. Timber sale contracts will include a clause providing for cencellation or temporary cessation of activities if such are needed to resolve a grizzly- human conflict situation. Contractors' full cooperation in meeting grizzly management goals and objectives will be a condition to their reseiving and holding to their contracts will be a condition to their reseiving and bolding	
MANAGEMENT SITUATION: MGMT, SVSTEM OR ACTIVITY	wildife 7. Management (Continued)	α.	Fire and Management 2.	

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RESOLVE GRIZZLY-HUMAN CONFLICTS	population would be a likely result of its control, the U.S. Fish and Wildlife Service and State wildlife agencies will be requested to exercise control. See Appendix, page 52 for guidelines for determining grizzly nuisance status and for controlling nuisance grizzlies.			
MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	3. X	4. Logging and burning activities will occur at a time or season when the area is of little or no biological importance to grizzlies. Where winter logging is infeasible, summer logging operations will be restricted in time and space to prevent significant disruptions of normal or expected grizzly activities.	• • •	· · · · · · · · · · · · · · · · · · ·
MANAGEMENT SITUATION: 1 MGMT. SYSTEM MAINTAIN AND IMPROVE OR ACTIVITY HABITAT	Logging and/or fire management activities which will adversely affect grizzly bear populations and/or their habitat will not be permitted. Adverse population effects are population reductions and/or grizzly positive conditioning. <u>Adverse habitat</u> conditioning. <u>Adverse habitat</u> duantity and/or gually (NP burning).	11 be improved manipulation. tment, sale ad managed thods to thods to ation (NF, ation (NF, 1977) in	grizzly range, timmer har- vest, especially selection and group selection cuts and small clearcuts with no dozer piling of slash and no mechanical soil scarifi- cation, produces important amounts of herbs and shrubs bearing fruits eaten by grizzlies. Production of grizzlies, Production of grizzlies, forduction of uncut sites in the same	habitat types. This indicates that certain timber harvest practices can be used in some forest stands to in- crease their prizzly food value. It also indicates that grizzly habitat quality can probably be increased or enhanced by creating openings producing high quality grizzly food facilitating greater grizzly use in forest habitat where normal grizzly
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	<u>SITUATION: 1</u> MAINTAIN AND IMPROVE MAINTAIN AND IMPROVE	MINIMIZE GRIZZLY-HUMMAN CONFLICT POTENTIAL		
OR ACTIVITY	TAULTON AND FOSULT IN			
Timber and Fire	water taules and and/or stream stabilization and/or water spreading.			
Management (Continued)	ä			
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5	ex j	sale area merit of be done in close burning will not be done in close burning will not be done in close		
	whited a sale. Generally, white within a sale. Generally, white bark pine should not be marked for cutting unless it is expected for cutting unless it is expected	grounds, recreatio could brin	S	

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RESOLVE GRIZZLY-HUMAN CONFLICTS						•	•	
MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	6. All roads used for timber sale purposes will be single purpose roads only, and will be closed to public use not associated with timber sale operation and administration.	Exceptions to this could be: (a) seasonal closures if data show grizzlies' use of the area to be seasonal and the road facilitates other important resource use that would not be possible without	<pre>(b) roads could be open for short periods, such as for hunting seasons and wood gathering, 1f human use is of short duration.</pre>	 Timber sale operators and their employees will be informed of possible risks any time they are working in grizzly country. 	nporary living nber sale oper ssely regulate garbage will	to accumutate Bear proof refuse for grizzlies. Bear proof refuse containers and refuse collection containers and refuse vill be to prevent overflow will be required. Requirements will be included in sale contracts.	9. In fire camps, measures will be taken to avoid attracting grizzlies. Proper food storage and refuse disposal will be required. No edibles or garbage will be left after suppression or management efforts have ended.	
MAINTAIN AND IMPROVE	HABITAT							•
MANAGEMENT SITUATION.	Mumir. OR ACTIVITY Timber and Fire Management (Continued)				· · ·			

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URISTATE DEAK WARAGEMENI GUIDELINES

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			RESOLVE GRIZZLY-INDUNY
AUACEMENT S	TUATION: 1	MINIMIZE GRIZELY TO MINIMIZE GRIZELY	of arizzly-human conflict or
GMT. SVSTEM			ivestock depredat
R ACTIVIT		Commence and the second s	District Rangers In contragencies,
800e	including recreation horse		stare which the identify the conduction will immediately identify and how
anagemenu	allotments, will be seen as a second prizzijes	· ·	determining where, "" If the problem
	for its structure (1977)		to De a an immedi
	Forest Service procedules Vielects		ect
	and Interagency compared and and and and and and and and a sed.	C	ing the main's
			and/or activities
	2. The allotment management pro-		grizziy u
	will specify mean		tants merce
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	will be reflected in grazing	-	dumps, prepared ives.us, game meat in
	and annual per		camps or other used and domestic and/or camps of man, and domestic and/or
	ans.		possession fvestock. Interview of
	a clause y cessation vi vion of temporary cessation vi		tion act
	of activities if such are needed		any other ivestock where a anteral
	to resolve a grizziv permittees'		disrupting the streng its biological
	conflict situation in meeting		actvities (1.0. food use 10 mot
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	44 4	-	nvolve simple activity
	will specify measures to product		tion or temporary of permits seasonal or
	me and space		curtailment in units needs.
	tion areas view of alpine and		year" long at a fatermined to be
	grizzies view stream putromer		bear 15 uctor measur
	superproves and other Fiperian		a nuisance and all resource the bear and
,	areas) from continuing itve		been taren
	competing USB UY YOUNG Will be		rould be a likely result
	stock, meaw method permits and		U S
	annual permittee plans. Destant annual permittee ,	- -	vice and state wild
	ould range		be requested to ever the for
	partial to full processing measures		
	ut not be 1		See Appending Trizity nuisance status
	could include the afther		determiner ing nuisance grizzier
	to, coordrily or permanently,		5
	ىپە		
	off dates and service levels	•	
	utilization with grizzly needs.		
	Contract		

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RESOLVE GRIZZLY-HUMAN CONFLICTS

MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL		· •				The allotment management plan will specify measures for the will specify measures for the timely removal, destruction or treatment of livestock carcasses to avoid positive conditioning of grizzlies to livestock carrion as food. The intent is to reduce the likelihood of food associa- tion with domestic herds and ra- duce opportunities for depreda- tion. Allotment plans will re- tion. Allotment plans will re- tivestock and pet foods and human refuse associated with livestock operations be made unavailable to
SITUATION: 1 MAINTAIN AND IMPROVE MANTAT	Range condition class objective will be good to excellent in order to achieve range conditions favorable to grizzites.	On sheep allotments where grizzly- livestock depredation has been authenticated, adjustments will be made for the primary purpose of grizzly bear conservation. The following options are available:	 (a) change the season of use, bedding practices, or grazing area to avoid known problem areas or other habitat important to grizzlies in time and space; 	<pre>(b) change the class of livestock from sheep to cattle if the range is suitable for cattle; or</pre>	<pre>(c) remove all livestock and close the allotment. Vacant sheep allotments will not be restocked with sheep.</pre>	Grazing activities which will 5. adversely affect grizzly bear populations and/or their habitat population effects are population population effects are population reductions and/or grizzly positive conditioning. Adverse habitat effects are reductions in habitat quantity and/or quality.
MANAGEMENT SITUA MGMT. SVSTEM	UK ACLIVIT Range Management (Continued)	4				in

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domestic livestock. Interference M I I I is not determined to be a nuisance then correct the problem immediately by man-related causes are grizzly attractants and/or human activities interfering with grizzly use of habitat If the problem bear is determined to be If the problem bear involve simple activity modificacamps permanent activity a nuisance and all reasonable measures State wildlife management agencies. wil jmmediately identify the cause by deter Cause removal possession of man, and transportation recreation activities (transportation camping, trail and in cooperation with odors associated with man, livestock other dwellings, game meat in the activities are those associated with tractants include foods and food In cases of grizzly-human conflict grizzlies. grizzly habitat and/or prepared]{vestock and pet foods. mining where. why, when, and how carrion, garbage, garbage dumps, access, etc.) which disrupt removing the man-related cause. RESOLVE GRIZZLY-HUMAN curtailment or access closure. CONFLICTS grizzly use of habitat. temporary or conflict occurred. livestock grazing. Rangers tion or could allowed to accumulate: sight and/ storage Edibles edibles and/or garbage should be made unavailable (hung out of These measures wil reach, secured in a solid-sidedmittee plan and grazing permits. in other sealed containers) and 1.e., food should be canned or bear-proof structura, burned of packed out). These measures wⁱ garbage should not be dominant be specified in the annual perand/or garbage should not be or smell of edibles and/or grizziies through proper handiing, and disposal. MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL outfitter pack and saddle existing trails with frequent above which **00104** designated campsites, picnic developments Existing or proposed activitios or uses which will adversely will be evaluated ö cabins information facilities and structures grizzly⁻human encounters: (zzly-human encounters: used for grazing by existing or proposed outfitter special use camps. determine their compatiand have a history noncommercial recreation for recreation or adminsnowmobile and ski) and bility with grizzly habitat (foot. proposed campgrounds. MAINTAIN AND IMPROVE existing and proposed special-use resorts. other stock grazing areas; or all in (c) proposed trails proposed roads: uses. livestock; and actiftes and . visitor HABITAT istrative use: or activities The following requirements: exist 2103S 21035 ษกy and c Ø MANAGEMENT SITUATION: MGMT. SYSTEM ç ¥ <u>6</u>2 9 E (e) £ 9 . ACTIVITY (Continued) Management Recreation Management Range 0K

GRIZZLY BEAR MANAGEMENT GUIDELINES

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MANAGEMENT SI	SITUATION: 1 MPROVE	MINIMIZE GRIZZLY-HUMAN	RESOLVE GRIZZLY-HUMAN CONFLICTS
MGMI. SYSIEM OR ACTIVITY	HABITAT	CONFLICT FULLY AND	to prof
Recreation Management	affect grizzly populations and/or their habitat will be terminated.		it and a more matural would be a likely re 1, the U.S. Fish and 1, the U.S. Fish and
(Continueu)	Adverse population effects are Adverse populations and/or	· · ·	
	proprietation conditioning. grizzly positive conditioning. Adverse habitat effects are reduc- tions in habitat quantity and/or		See Appendix, page 5.1 for guidelines for determining grizzly nuisance status and for controlling nuisance grizzlies.
·	duality.	2.	
·			
	meet agency grizzly management reals and objectives. Permits	Land	
	on or temporan of activities		•
	are needed to resolve a grizkiy		
	and objectives will be a convirue to their receiving and holding	· · · · · · · · · · · · · · · · · · ·	
	permits.		
ŝ	. به	recreation si arbage contain with regularly rbage removal flow). All hur	
•.	grizzly use areas (Turaye area) denning areas or travel routes).		•
		ugh proper storage, han Jisposal as defined und Management, page 13	
	•	Carcasses of livestock and wild- life along major highways will be	
		descomplish this in National To accomplish this in National Forests, District Rangers will notify State Highway Departments for removal of carcases of	
		animais larger than deer.	
			•

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	MAINTAIN AND IMPROVE	-	CONFLICT POTENTIAL	
MGMT. JTJITV			dienersed recre	
Recreation Management (Continued)	4. Special care will be taken to assure that trail and road construction does not degrade important grizzly use areas.	4		•
		a.	Open garbage dumps wiil not be permitted.	
		e.	Resort operators under special use will use bear-proof garbage containers and make regular collections from all containers.	
		7.	In areas where survivorship of individual grizzly bears is rensidered important for	
			recovery or grizzly-human recovery or grizzly-human conflicts have been documented. all human and prepared livestock all buman refuse	
·			associated with outfilter of associated will be made unavailable tions will be made unavailable to grizzijes through proper to grizzijes through proper	
	•		storage, mend	
		an	In areas where survivorship of individual grizzly bears is considered important for	
			ery or griz icts have b tters and a be required	•
	•		meat area. Game meat more sleeping area. Game meat more than 800 yards from sleeping area need not be hung. Meat will be hung so that the lowest por- tion of the carcast is sus-	
			en verticat	

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GUIDELINES
MANAGEMENT
BEAƘ
GRIZZLV

WANAGEMENT SITUATION		MINIMIZE GRIZZLY-HUMAN MINIMIZE GRIZZLY-HUMAN	RESOLVE GRIZZLY-HUMAN CONFLICTS
	MAINTAIN	CONFLICT PULLINATION Object	
decreation		above the nigness store from the and four horizontal feet from the nearest lateral object. Suspen-	
lanagement Continued)		sion ropes should be trees of ten feet of higher to trees of	
		objects. 9. Hunters and outfitters will be 9. Hunters and outfitters will be	•
	· .	encouraged to longer than 48 camp vicinity no longer than 48 hours.	
		10. No permits will be issued for the baiting of bears for purposes of sport hunting.	· · ·
:	• • • •	 Use of established campsites will be adjusted as necessary to prevent a buildup of odors of improperly handled garbage which could attract grizzlies. 	· · ·
		12. An information brochure summa- rizing recommended human conduct in grizziy country will be made available to the public.	
		13. Dogs will not be permitted. NP.	•
		15. Signs identifying grizzly range and recommended human conduct within, will be placed at trail- heatd, developed campgrounds, and backcountry campsites.	
· .		16. Grizzly bear trapping sites will be temporarily closed to human use.	· · ·
		17. Trails and roads accessing areas with histories of grizzly-human encounters or areas where such encounters are probable or likely encounters are probable or likely	· ·
		either temporarily or permanenty as necessary to reduce conflict potential.	• •

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MINIMIZE GRIZZLY-HUMAN MINIMIZE GRIZZLY-HUMAN CONFLICTS	In cases of grizzly-human In cases of grizzly-human nistrict Rangers in cooper	agement fy the (when. a If the	confilet occured to be a nuisance then is not determined to be a nuisance then is correct the problem immediately by re- correct the problem immediately by re-	moving the man water and/or human are grizzly attractants and/or human activities interfering with grizzly use activities Attractants include foods	and food odors associated with with and food odors associated with stock carrion, garbage, garbage dumps, prepared livestock and pet foods, camps prepared livestock and pet in or other dwellings, game meat in or other dwellings.	or of many ork livesto	mining, watershed development grizzlies, special uses which disrupt grizzly use of grizzly habitat, and/or grizzly use of	cause converse ctivity modifica y or permanent a	If the problem bear is determined to be If the problem bear is determined to be a nuisance and all reasonable bear and	have been taken to proceed a griz its habitat and a more natural griz its habitat and a more natural griz its hand would be a population would be a likely result	food and garbage the general	standards. $C_2 = \frac{1}{2}$ standards. $C_2 = \frac{1}{2}$ for guidelines 1 be that all grizzly See Appendix, page $\frac{1}{2}$ for guidelines ints, as defined under determining grizzly nuisance status a ints, as defined under determining grizzly outsance grizzlies.	made unavilance to at
STTUATION: 1 THORNE	MANAGEMENT AND IMPROVEMENTAL MAINTAIN AND IMPROVEMENT WORT. SYSTEM MAINTAIN HABITAT	-	and Special variants exploration and Jses geothermal exploration and denagement development, (b) water develop- danagement (c) new resorts and/or		ikely to affect grize and tead. their habitat will be evaluated. USDA Forest Servigency Cumulative cedures and Interagency Cumulative reactive Assessments (1986) may be	nse(All operating plant pecify measures use permits will specify goals and to meet agency grizzly goals and to meet agency permits will include 	objectives. a clause providing for cancella- a clause providing for of tion or temporary cessation of activities if such are needed to activities if such are needed to	resolve a grizzly-numan control situation. Permittees' lesses' and operators' full cooperation in and operators' full cooperation in	meeting griation and objectives will be a condition to their receiving and holding to their receiving and plans.	approved permission affect 3. Activities which adversely affect 3. Activities populations and/or	grizziy will not be per- their habitat will not be per- mitted. Adverse habitat effects could result from (a) land surface	alterations. (c) reservoirs, alterations, coads, pipelines, rights-of-way, roads, pipes, or canals, transmission lines, or

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RESOLVE GRIZZLY-HUMAN CONFLICTS					
MINIMIZE GRIZZLV-HUMAN CONFLICT POTENTIAL		Operation plans and special use permits will specify food storage and handling and garbage disposal standards. The general rule will be that all grizzly attractants, as defined under conflict resolution will be made unavailable to grizzlies.	Temporary living facilities for exploration and/or development personnel may be on-site or at an alternative site designated by the District Ranger.	Feeding of bears will not be permitted.	Roads constructed for mineral exploration and/or development will be single-purpose roads only and will be closed to public use not associated with mineral not associated with mineral could be seasonal closure if data could be seasonal closure if data shows grizzly use of the area or habitat to be seasonal.
UATION: 1 MAINTAIN AND IMPROVE HABITAT	4. Operating plans and special use permits will include specific measures to protect and maintain grizzly habitat. Measures will address items arf under 3 above, and others as necessary.	 Wineral exploration and/or 5. development activities will development activities will occur at a time or season when the area is of little or no biological importance to grizzlies. 	6. All waste water associated with drilling operations will be disposed of in a manner approved by the District Ranger.		
MANAGEMENT SITUATION: MGMT. SYSTEM OR ACTIVITY			G	•	â

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GUIDELINES
MANAGEMENT
BEAR
GRIZZLY I

2 TNANADAWA		MINIMIZE GRIZZLY-HUMAN	RESOLVE GRIZZLY-HUMAN CONFLICTS
MGMT. SVSTEM	MAINTAIN AND IMPROVE HABITAT	CONFLICT POTENTIAL	
OR ALIIVITY			01: 01:
windife	1. Maintain close contact with		(1) Fact finding, including
Management	research organizations to the area		(a) determination of where,
	that current resource planning		
	being used in affecting		occurteu; who was involved;
	orizzlies.		status
		.2.	problem bear
	2. Complete a biological assessment		nonnuisance) considering
			dependency b
	(1977) procedures and interastic)		ISTURY
	Cumulative Effects Assessments		Appendix, page 34.
	~~		_
	Timber		
	Recreation, name watershed and		(2) grizzly control, increased
	Fire and wine waracement Systems)		and prone numbers of the management
	Special Commence affect grizzlies		from state "the U.S. Fish and
	and/or their habitat.		windlife Service, page 51,
		3.	live trapping;
			::
	•		
	effects on habitat suitability		disposal;
	and availability and mortality		(6) relocation. including maps of
	risk.		specific
	Sorthoopen		sites. Relocation plans with
	4. Initiate consultation promeures	·	implications for National Farmer
	with the U.S. Fish and with the		Forests,
	Service, as necessary, it the		
			ervice.
	a "may affect" determination		and State wilding personance
	BLM should initiate consultation		
	related to mineral leasnue.		
	use is likely, and with tur-		
	awareness of the blurus co		
	Opinion, recommend proves which will		
	land use mouth teather		
	provide compariant is and uses		
	grizzly used a model of the second tions		
	uses without the projects of		
	increases cannot be made com-		
	natible and grizzly needs are		
	reat (as in Management Situation		
	1) then recommend area be re-		
	classified under Management		
	ษั		
	not constitute need for species		
	survival and recovery uter		
	recommend proceeding with the		
	activity.	· · · · · · · · · · · · · · · · · · ·	

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RESOLVE GRIZZLY-HUMAN	CONFLUCES	· · ·	· ·	of grizzly-human conflict.	pistrict Rangers an even agencies will State wildlife management agencies will immediately identify the cause by deter- imming where, why, when, and how the mining where. If the problem bear conflict occurred. If the problem bear is not determined to be a nuisance then is not determined to be a nuisance then correct the problem immediately by correct the problem i	activities interfering of habitat. Attractants include foods of habitat. Attractants include foods and food odors associated with man. live- stock carrion. garbage. garbage dumps. stock carrion. garbage ransportation prepared livestock and reansportation propersession of man. and transportation possession of man. and transportation possession of man. and transportation possession of fine control and/or work livestock. Interference and/or work livestock associated with activities are those associated at a activities are those associated at a activities are those associated at a activities are activities are activities are activities are activities are those associated at a activities are activities are activities are activities are activities are activities a	
	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	9		potential within resource manageme recommend measure conflict potentia			
	TUATION: 2 MAINTAIN AND IMPROVE HARITAT	awaren awaren awaren a a a f f f a a f t a f t a f t a f t a f f f f	ble dent form torm tog tog	8. Monitor the application of these D. guidelines to assure they are properly and effectively used. Recommend improvement in guider itnes and application procedures.	 Ail proposed logging and burning activities will be evaluated for their effects upon grizzlies and/ their ablitat. USDA Forest or their habitat and Interagency (1977) procedures and Interagency Cum. Effects Assessment (1986) may be used (NP burning) see Wildlife Management, above). 	 Where grizzly population and habitat use is likely, timber sale and fire management EAs sale and fire management EAs sale and fire management EAs agement goals and objectives and measures to meet them. Con- tracts will include specific tracts to protect, maintain measures to protect, maintain measures to protect, maintain measures to protect and and/or improve grizzly habitat and meet grizzly mabitat and objectives. Timber sale contracts will include a clause contracts will include a clause of activities if needed to fissive grizzly-human conflict resolve a grizzly-human conflict 	
	MANAGEMENT SITUATION: MGMT. SVSTEM	OR ACTIVITY wildlife Management (Continued)		• • •	Timber and Fire Management		

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ENT GUIDELINES
EAR MANAGEMENT GU
BEAR
GRIZZLY

NBMAN	RESOLVE GRIZZENTRUMM	simple activity modification or temporary	If the area does not warrant reclass" If the area does not warrant situation 1 ification under Management Situation or and temporary activity cessation or activity modification is not possible activity modification is not possible or does not solve the problem or if the		See Appendix, page 51 for guidelines for determining grizzly nuisance status and for controlling nuisance gruzzlies.	1.		0. C						
-	MANNIZE GRIZZLY-HUMAN	CONFLICT POTENTIAL				Grizzly habits		when the area importance to biological importance to grizzlies. Where winter logging is infeasible, summer logging neerations will be restricted in	o prever-	· ·				
		UATION: 2 MAINTAIN AND IMPROVE HABITAT	cooperation in meeting grizzly management goals and objectives will be a condition to their receiving and holding contracts (NP burning).	 Logging and/or fire management Logging and/or fire management activities which will adversely activities which will adversely activities which will adversely 	and/or their naures feasible, be avoided. Adverse habitat effects are reductions in habitat quantity and/or quality. Adverse population quality. Adverse population effects are reductions and/or		 Grizzly habitat improvement will Grizzly habitat improvement will Generally not be a consideration. If it is, where indicated, habitat If it is, where indicated, in feasible, 	through vegetation manipulation Suilvicultural treatment, sale area improvement and managed area the the methods to burning ar manipulation (NF,	mplisn marrent	<pre>(a) Silvicul to the silvicul silvicul silvicul silvicul silvicul silvicul silvicul selection and group silvicul selection and group selection cuts and small silvicul sil</pre>	clearcuts with no dozer provident of slash and no mechanical soil scarification, produces important amounts of herbs and important amounts of herbs and	shrubs bearing trutts of grizzlies, production of grizzly food species in these grizzly food species than in cuts is often greater than in cuts is often greater than in	uncut a trypes. This indicates habitat types. This indicates that certain timber harvest practices can be used in some practices can be used in some forest stands to increase forest stands to increase forest stands to increase forest stands to increase for of indicates that grizzly	
		MANAGEMENT SITUATION. MGMT. SVSTEW	Timber and Fire Management (Continued)				4							

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INTAIN AND IMPROVE INTAIN AND IMPROVE TARTIN AND IMPROVE TART quality can probably increased or enhanced by increased or enhanced by initating greater grizzly be renormal gits. Types for renormal gits. restands are sub- suble treatment are suble treatment are sub- suble treatment are suble treatment are sub- suble treatment are suble treatment are suble treatment are suble treatment are suble fir/huckleberry, the fir/huckleberry, suble fir/huckleberry, treated. Tresponses will dictate are spuses will dictate are spuses will dictate are spuses will dictate are spused to to are are suble fir to are are suble fir teat- sted cover suble fir teat- the vegetative equises soil scarificates that which have been broadcast which have been broadcast are the vegetative equised fire in which have been broadcast which have been broadcast which have been broadcast which have been broadcast are the vegetative equised fire in which have been broadcast which have been broadcast are the vegetative equised fire in which have been broadcast besitable for creating desirable for creating desirable for creating grizzly food benciuch grizzly food benci		c		RESOLVE GRIZZLY-TUMM
habitat quality grizzly resting openings pr creating openings pr facilitating greater where normal grizzly where normal grizzly appears light. Type prestible treatment a procestble treatment a spruce/wrestail, su fir/buckleber spruce/wrestail, su through future specific through future specific through future specific to the specific type of the specific th	ENENT SITUA	MAINTA	CONFLICT POTENITAL	
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use in forest habita where normal grizzly where normal grizzly appears light au spruce/horsetati, su spruce/horsetati, su spruce/horsetati, su spruce/horsetati, su spruce/sweet-scented spruce/sweet-scented and subalpine fir/blu and subalpine fir/blu and subalpine fir/blu strual site specific to the specific type of the treated. In gener grizzly food sources states on a sustained forested and are whith burned and are with burned and subalpicatie such man-made opening such man-man-man-man-man-man-man-man-man-man-	ement inued)	بحدة		·
appears treatment a spruce/horsetai, su spruce/horsetai, su spruce/horsetai, su spruce/horsetai, su spruce/horsetai, su spruce/sweet-scented be through future studie the specific type of the specific type of the specific type of the specific type of states on a sustained states on a sustained states on a sustained states on a sustained states of and cover foods thon and cover burned and are withou burned and are withou burns the vegetative e comparable to those o states of aris to those of burns the vegetative foods. Group selection cuts foods. Group selection cuts food aris of burns, some states of burns to those comparable to those foods. Group selection cuts food profing the prescr auch man-made opening such man-man-man-man-man-man-man-man-man-man-		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		•
alpine fir/huckreued spruce/sweet-scented spruce/sweet-scented spruce/sweet-scented spruce/sweet-scented spruce/sweet-scented spruce/sweet-scented spruce/sweet-scented the specific type of the specific type of the specific type of the specific type of sprizzly bubitat manage forested cover should forested cover should states on a sustained even flow basis. Composition and cover states of sustained states of a sustained states of sustained states of sources of such man-made opening such man-made openin		nent are		
fir/sweet-scented spruce/sweet-scented and subalpine fir/blue through future studi- tion responses will tion responses will the specific type of ment and plant associ porested cover should forested cover should a balance of all sources states on a sist manas forested cover should states and are withou burned and are withou burned and are withou burned are the cover come the vegetaticate produce important of burns stash removal is ucces aburned are withou burned are withou burned are withou burned are withou burned are the section coups the vegetaticate produce important of burns foods. foods for cuts is used aduplicate with prescr able trestial for cuts able trestial for cuts		لل مجه ک		
rs may be identi- responses will responses will responses will responses will responses will responses will responses will ance of all score restion and cover sted cover should sted cover should restion and cover which have withou all scarification rable to those or all scarification man-made opening man-made opening responses on responding to those or all scarification man-made opening respondent of removal are withou restication cuts removal fisues removal fisues		sweet score ice/sweet-sc subalpine f		
ai site sporse serii of specific typer and plant associated reated. In gener reated. In gener reated. In gener ande coltat manage stance cot all succ sition and cover which have been which have been and and are without and and are thous the vegetative e the vegetative e the vegetative e in which prescr free wildfire, som free wildfire, som of burns, som the vegetative e the the vegetative e the		identif studie	•	•
reated. In gener- reated. In gener- sted cover should sted cover should stance of all succ solution and cover which has is. which has sources which has be been and and are withou and and are withou dand are withou and are been able to those o rable to those o r		will dictate		
flow basis. flow basis. flow basis. flow basis. sition and cover which have been which have been and and are withou and and sources which have been soil scarificati soil scarificati ann made opening the which prescrificati soil for col desirable of pro in which prescrificati soil scarificati soil scarificati ann made opening the which prescrificati soil scarificati and and sources soil scarificati ann and sources ann and sources ann and sources and and sources soil scarificati ann and sources ann and sources ann and sources and and sources soil scarificati ann and sources ann and sources ann and sources and and and sources ann and sources ann and sources ann and sources ann and and sources ann and and and ann and and and ann and sources ann ann and ann and sources ann ann and ann ann ann ann ann ann ann ann ann ann		general, management should provi		
sition and cover which have been which have been and and are withou soil scarificati soil scarificati soil scarificati ann-made opening man-made opening the vegetative e the vegetative of buens, some of important gri selection cuts fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap fregularly shap food pro grizzly food pro grizzly food pro		tained		
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<pre>man-made openings ca the vegetative equiv the vegetative equiv of burns. some of w of burns. some of w ice important grizzly ice important grizzly ice important grizzly ice important grizzly removal is used to removal is used to removal</pre>		~		
ce important grizzly selection cuts and irregularly shaped c in which prescribed removal is used to removal is used to cate wildfire, appea cate wildfire, appea desirable for creati desirable for creati grizzly pesirable clea		cenings tive equ some of		
selection cuts and irregularly shaped c in which prescribed removal is used to cate wildfire. apped cate wildfire. apped desirable food produci grizzly food produci grizzly food produci	,			
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ngs. Desirable		in which present removal is used cate wildfire, a desirable for cr desirable for cr grizzly food pro	,	· · ·
		ngs. Desirable		•

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ver patche	cut blocks and supplemental cover screens for wet meadows, cover screens bonds, and
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... BEAR MANAGEMENT GUIDELINES

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RESOLVE GRIZZLY-HUMAN CONFLICTS			
MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL			Grizzly habitat enhancement through silvicultural treatment, sale area improvement or managed burning will not be done in close proximity to private property, resorts, campgrounds, summer homes, other recreation sites or areas which could bring grizzlies in contact with humans.
TUATION: 2 MAINTAIN AND IMPROVE HABITAT	denuded sites other than open roads. Riparian areas could be restored, maintained, im- proved or increased through revegetation and reforestation which could favorably affect water tables and result in stream stabilization and/or water spreading. (c) Managed burning Some grizzies appear to derive much of their energy from the fruits of shrubs, including buckleberry and buffaloberry. Burns resulting from wildfires in this century are important producers of fruiting shrubs which provide grizzly food energy.	Natural fire frequency appears necessary to maintain or expand burn components. Out- side of wilderness areas, prescribed burning in habitat types which are not suitable for timber production could help to approximate a natural fire frequency. Fire manage- ment planning whithin wilder- ness areas, which would allow wildfires to burn within certain areas and conditions, would be valuable in improving habitat. Forest components known to have the greatest potential for improvements include the whitebark pine/ subalpine fir, and subalpine fir/huckleberry habitat types,	Silviculture treatments will be 5. designed to maintain or favor a mature, cone producing stand of whitebark pine where it exists within a sale. Generally. withebark pine should not be marked for cutting unless it is expected to die before the next cutting entry.
MANAGEMENT SITUATION: MGMT. SVSTEM OR ACTIVITY	Timber and Fire Management (Continued)		۵. ۱

 6. Roads constructed for time typoses will be closed typuse not associated with types or a main stration if the road addinistration if the road addinistration if the road addinistration if the road addinistration i area or a man situation i area important habitat or is seasonal is informed if human use is of show orking in grizziy orcurrence is for human use is of show orking in grizziy orcurrence is of show orking in grizziy orcurrence is of show orking in grizziy orcurrence is of show organage will be informed early or garbage will be and refuse constanters and refuse constanters and refuse or is included in sale contrators will be addressed or is organated. Required. Required will be addressed or is organated. Required is a left or supression will be addressed or is organated. Needibles or garbage will be addressed or is organated in the remover organated in the supression organated in the supression organated in the remover organated in the supression organated in the supression organated in the remover organated in the remover organated in the remover organization. 9. In fire camps where grizzies organated in the remover organated in the remover organization organated in the remover o			IVITY and	MAINTAIN AND IMPROVE	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	CONFLICTS
			mber and	HABLIAI		
 employed and the second and	 addition and the second seco	 (b) a diministration of the second second			purposes will be cluster of the	
emplo em	 and the second second	 and the second second	re		use not associated and	
e and server	and rice and require to a set of the set of	e mprover second and s	nagement		timber and who if the road	
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(b) A Time A	(b) employee e	(b) . Tim . Tim . When . When . When . When . Tim . To . To				
			_		001.41.1011	
			- -		Timber sale operators al amplovees will be inform	
					possible risks any time they are	
					working in grizzly comment	
					ly tempurary introduces will be	
or garbage will not be to accumulate or be av- grizzles. Bear proof containers and refuse to prevent overflow wi required. Requirements included in sale contra included in sale contra occurence is likely, me will be taken to avoid grizzles. Proper foo grizzles. No edibles o required. No edibles u	or garbage will not be to accumulate or be av- grizzlies. Bear proof containers and refuse containers and refuse to prevent overflow wi required in sale contra in fire camps where gri ncruence is likely, me will be taken to avoid grizzlies. Or edibles o required. No edibles o will be left after sup	or garbage will not be to accumulate or be av- grizzles. Bear proof containers and refuse to prevent overflow wi required. Requirements included in sale contra in fire camps where gri or curence is likely, me will be taken to avoid grizzlies. No edibles o required. No edibles o required. No edibles o required to aroid will be left after support or management efforts p			run times	
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will be taken to avoid attracting grizzlies. Proper food storage and refuse disposal will be required. No edibles or garbage will be left after suppression	will be taken to avoid attracting grizzlies. Proper food storage and refuse disposal will be required. No edibles or garbage will be left after suppression	will be taken to avoid attracting will be taken to avoid attracting grizzlies. Proper food storage and refuse disposal will be required. No edibles or grage will be left after supression or management efforts have ended.			. In Tire company, and a	
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and refuse disposal will be required. No edibles or garbage will be left after suppression	will be and refuse disposal will be required. No edibles or garbage will be left after supression will be left after supression	and refuse disposal will be required. No edibles or garbage will be left after suppression or management efforts have ended.			crizzlies. Proper food storage	
required. No edibles of garbage will be left after suppression	required. No edibles of garpage will be left after suppression 	required. No edibles of garpaye will be left after suppression or management efforts have ended.	-		and refuse disposal will be	
Ifter suppress	after suppress Letoric have	afforts have			required. No edibles of garpaye	
		efforts nave			fter suppress	
efforts have	BLTOLIS DAVO				efforts have	

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RESOLVE GRIZZLY-HUMAN			un cases of stock depredation, visit orizzly-livestock depredation, visit	Rangers in cooperation fight	wildlife managements the cause by	where, when, why, '	o be a nuisar	bear is not determined and ately by		cause. Likely man-related activities	intertering "tractants include rouse s achitat Attractants include rouse	of had the associated with more and food odors associated with more associated with with more associated with more associated with with with more associated with with with with more associated with with with with with with with with	domestic livestock carrient and	garbage dumps. prepared wellings.	pet foods, camps of man, and	game mean in Four transportation investor	comparie activities are compared to the stock	- 0	activities in mee	12 J Y S (its biological with succulent, here	seav su	re vitally important of years	species especially cause re-	in late summer the simple activity	moval course temporary activity		reclassification uncorrectivity	Situation of activity modification is	le or does not suive		termined to Service and State	Fish and will be requested to	cise control.	for guideline:	See appendix, we have a status and with a status and with a status and status	rolling nuisance		-				
	WINTHIZE GRIZZLY-HUMAN	CONFLICT POTENTIAL	- + +							2.														3.			•						·				-						
		MANAGEMENT SITUATION: AINTAIN AND IMPROVE	GMT. SYSTEM HABIAN	· All livestock use on allotments,	including recreation horse at	wanayements will be evaluated and/or	effect Upon 31 """ " habitat, USDA Forest	carvice procedures (1977) and	Interagency Cumulative Filed.	Assessment (1900) www.	z. where we is likely, the habitat use is likely.	allotment management plan with	009	saci	8	wits and annual permittee plans.	All permits will include a city	providing for temporary voor	of activities if the situation conflict situation		tion in meeting grizzly manage	0	a condition to their t	treating permission of the second sec	rta allotment management plan	specify feasible measures to specify feasible measures food	protect in time and approx	production area wet alpine and	grizzered vedows, stream bortoms,	aspen groves and other liper to	areas) from contructions areas) from contructions	competing use of the will be these measures will be	reflected in grazing permits and	annual permittee plans. reverse	protection may be increased inter-	evaluation vite Effects Assess agency Cumulative Effects Assess	1	5	sing grazing changing on and	3	utilization rates at your utilization rates at your second s	compatible with store	USB, Karve

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immediately identify the cause by determining where, why, when, and how the the conflict occurred. If the problem state wildlife management agencies. will Rangers in cooperation with in cases of grizzly-human conflict RESOLVE GRIZZLY-HUMAN CONFLICTS stock carcasses to avoid positive measures will be specified in the grizzlies through proper storage, annual permittee plan and grazing livestock carrion as food. Allotment plans will require that ures for the timely removal, de-struction or treatment of liverence is likely, allotment man-agement plans will specify measall human and prepared livestock associated with livestock opera-For areas where grizzly occurand pet foods and human refuse conditioning of grizzlies to These tions be made unavailable to handling and disposal. MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL permits ŝ feasible, be avoided. Adverse population effects are population reductions and/or grizzly positive conditioning. Adverse habitat effects are reductions in habitat available involving sheep grazing Options determine their compatibility with grizzly habitat requirements; (a) (1986)) to (FS, 1977 and Interagency Cumulaherding practices; change livestock class from temporary livestock removal. The following uses, developments adversely affect grizzly bears and/or their habitat will, if altering season of use and or activities will be evaluated excellent in order to achieve range conditions favorable to Grazing activities which will objectives will be good to 2 MAINTAIN AND IMPROVE quantity and/or quality. tive Effects Assessment sheep to cattle: HABITAT proposed roads; grizzlies. MANAGEMENT SITUATION: WGMT. SVSTEM are: **a** æ (c) 4 -ACTIVITY Management (Continued) tuagement Management Management Recreation Range 0R

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MANAGEMENT SITUATION:	2 MAINTA	MINIMIZE GRIZZLY-HUMAN	RESOLVE GRIZZLY-HUMAN CONFLICTS
C OR ACTIVITY	HABITAT	CONFLUCT PULENITAL	
Dacreetton	(b) proposed trails (foot, horse,		the problem inned
Management	snowmobile and ski) and		105
(Continued)	existing trails with inductions and the bumber encounters:		cause. Likery many entropy of human
	(c) proposed campgrounds,	-	activities interfering with grizzly
			use of habitat. Attractants more way
	areas, Visitor information factifities and other		and tobu uuus association garbage, garbage dumps.
	facilities and structures for		- 6°
	recreation or administrative		or other dwellings, game meat in
			possession of many and thereforence
	(d) any or all 11 (c) acced miner evist and have a history of		and of compare those associated with activities are those associated with
	incounters;		
	(e) existing and proposed special-		ck grazing, camping, e.c.)
	use resorts, cabins, and out office some and a stock		disrupt grizzijes, su zroj od
	fitter pack and source verses		4
	(f) areas used for grazing by		tion or temporary activity cessation. If
	noncommercial		the area does not warrant reclassifica-
			 Management Situation -
	(g) existing or proposed outfitter		y activity cesserion modification is not
	special use camps.	•	õ
	system or ornoosed activities		em bear is determined to be a
	or uses which will adversely		
	affect grizzly bears and/or their		Service and state wildlife agencies "
	habitat will be, if feasible,		
	avoided. Adverse population Letote and population reductions		delines
			rmining grizzly nuisance
	ditioning. Adverse habitat		and for controlling nuisance grizziles.
	effects are reduction in habitat		
	quantity and/or quality.		-
	where arizzly population and	2.	
1	habitat use is likely. recreat		
	oriented EAs and concessionaire		
	special use permits will specify		
	feasible measures to meet agency		
	grizzly management yours will include	· ·	
	cessation of activities if needed		
	to resolve a grizzly-numan		
	full cooperation in meeting		
	grizzly management goals and		
	<pre>objectives will be a conditioned to the provided of the p</pre>		
~~~	cermits.		

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	7. Where grizzly occurrence is 11kely and survivorship of indi-
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MGMT. SYSTEM OP ACTIVITV	MAINTAIN AND IMPROVE HABITAT	MINIMIZE GRIZZLY-TUMAN CONFLICT POTENTIAL	
CONFLICTS Recreation	en de anti- a se anti- de l'anti- a se a se a se a l'anti- a se a de de de de la se transmissione de la second	fitter operations will be made	
Management		unavailable to grizziles un ous + handling and	-
(Cantinued)		disposal. A "pack-In-pack-Out"	
		refuse policy will be enforced.	
		8. Outfitters and all other hunters	• • •
		be encouraged to ha	
		east lu	
		sleeping areas. Lame meat more than ann tarde from sleeping	
		areas need not be hund. Meat	
		should be hung so that the lowest	
		carcass is	
		pended ten vertical feet above	
		the highest ground oujed and	
		four horizontar reet to un tue hornon object fus-	
		nearest lateral unject. You and the tied of f	
		ten feet or higher to trees of	-
			-
		9. Hunters and outfilters will be	
		encouraged to recy sume more than the second of the second	
-			· ·
		io permits for soring and autumn	
		bear baiting	
	-	sport hunting will be issued with	
		the following conditions: baits	
		ermitted	
		mile of any permitted camp.	
		occupied dwelling, private	
		property, or within an area	
		where grizzly occurrence is	
		1 Kely. Datts must be a minimum	
		Of two miles apart and at teast	
		one quarter mile irom system 	
		mile from permanent streams.	
		11 Where grizzly occurrence is	
		sites will be adjusted as nec-	
		essary to prevent a buildup of	
		odors or improperly manured	
	•	garbage whitel turin antiation anti-	

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<ul> <li>12. An Information brochure summarizing recommended human conduct in grizzly country will be made available to the public.</li> <li>13. Dogs will not be permitted. NP.</li> <li>14. Feading of bears will not be permitted.</li> <li>15. Signs identifying grizzly range and recommended human conduct heads. developed campgrounds and backcountry campsites.</li> <li>15. Signs identifying grizzly range and recommended human conduct heads. developed campgrounds and backcountry campsites.</li> <li>15. Signs identifying grizzly range and recommended human conduct heads. developed campgrounds and backcountry campsites.</li> <li>16. Grizzly bear trapping sites will be temporarily closed to human use.</li> <li>17. Temporary trail and road closure is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>13. and of a sandor and code closure is and or and and and and and and and and and and</li></ul>	MGMT. SYSTEM OR ACTIVITY	MAINTAIN AND IMPROVE Habitat	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
<ul> <li>13. Dogs will not be permitted. NP.</li> <li>14. Feading of bears will not be pormitted.</li> <li>14. Feading of bears will not be pormitted.</li> <li>15. Sign identifying grizzly range and recommended human conduct within, will be placed at trail-beckcountry campsites.</li> <li>15. Sign identifying sites will be compensated at trail-beckcountry campsites.</li> <li>16. Grizzly bear trapping sites will be compensated in applications or proposals for react an orticat potential.</li> <li>17. Temporary trail and road closure is an option which can be applied to human condict in applications or proposals for reacte grizzly-human conflict potential.</li> <li>17. Temporary trail and road closure is an option which can be applied to human generit (c) mater develorments and/or react and/or resonand of hich can be applied to human generit (c) mater develorment which can be applied to the resonance of the resonance and/or resonance and resonance and resonance and/or resonance and/or resonance ano</li></ul>	Recreation Management (Continued)		An information brochure ing recommended human co in grizzly country will available to the public.	
<ul> <li>14. Faading of bears will not be permitted.</li> <li>15. Signs identifying grizzly range and recommended human conduct within, will be placed at trailing and recommended human conduct beack diversed and beackountry campsites.</li> <li>15. Grizzly bear trapping sites will be placed at trailing and reaction the permitted.</li> <li>16. Grizzly bear trapping sites will be trapping sites.</li> <li>17. Feporary trail and road closure in a population of an option which can be applied to reduce grizzly-human conflict potential.</li> <li>18. Grizzly bear trapping sites will be trapping sites.</li> <li>19. Proposed activities referenced to reduce grizzly-human conflict potential.</li> <li>19. Proposed activities referenced to reduce grizzly-human conflict potential.</li> <li>19. Proposed activities and development.</li> <li>10. Proposed activities referenced to reduce grizzly-human conflict potential.</li> <li>11. Proposed activities and development.</li> <li>12. Mhere grizzly population and development.</li> <li>13. Where grizzly population and the second s</li></ul>			. Dogs will not be permitted.	
<ul> <li>15. Signs identifying grizzly range within, will be placed a trail be tamporarily closed to human use.</li> <li>16. Grizzly baar trapping sites will be tamporarily closed to human use.</li> <li>17. Temporary trail and road closure is an option which can be applied development (b) water developmential.</li> <li>18. Grizzly baar trapping sites will be tamporary trail and road closure is an option which can be applied development (b) water development is an option which can be applied development (b) water development is an option which can be applied development (c) merals gas and oil, and (e) all uses which can special use for and to the special use site of the train trail of the special use bermits (f5M 2700), and (e) all uses which can be applied use permits (f5M 2700), and (e) all uses which can be applied to reduce grizzly population and the special use is in applications and/or their habitat use is likely. Operating gas and/or their habitat use is likely to perating use permits the special use of grizzly management for which can be applied used to the special use of the species of the specis of the species</li></ul>			Feeding of bears will not permitted.	
<ul> <li>16. Grizzly bear trapping sites will be temporarily closed to human use.</li> <li>17. Feaporary trail and road closure is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>1. Proposed activities referenced is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>1. Proposed activities referenced is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>1. Proposed activities referenced is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>1. Proposed activities referenced is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>1. Proposed activities referenced is and/or resort a development. (b) water development development (c) new resorts and/or resort and/or resort (c) new resorts and/or resort and/or resort (c) new resorts and/or resorts (c) new resorts and/or resorts (c) new resorts and/or resorts (c) new reso</li></ul>	:		Signs identifying grizzly rai and recommended human conduct within, will be placed at tra heads, developed campgrounds backcountry campsites.	
<ul> <li>17. Temporary trail and road closure is an option which can be applied to reduce grizzly-human conflict potential.</li> <li>18. Proposed activities referenced in applications or proposals for ceduce grizzly-human conflict geothermal exploration and geothermal exploration and development, (b) water and/or resort expansion. (d) all other special uses (SM 2700) and (e) all uses which require no special uses (SM 2700) and (e) all uses which require no special uses (SM 2700) and (e) all uses which require no special uses (SM 2700) which are likely to affect grizzlies and/or their habitat will be evaluated.</li> <li>2. Where grizzly population and plans and or their habitat used.</li> <li>3. Where grizzly population and plans and or their habitat used is likely. Operating plans and or their habitat used.</li> </ul>			Grizzly bear trapping sites be temporarily closed to hun use.	
<ul> <li>I. Proposed activities referenced in applications or proposals for Special (a) mineral, gas and oil, and geothermal exploration and geothermal exploration and geothermal exploration and development, (b) water develop- ments, (c) new resorts and/or resort expansion, (d) all other ments, (c) new resorts and/or resort expansion, (d) all other all uses which require no special use permits (FSM 2700), and (e) all uses which require no special use permits (FSM 2708) which are likely to affect grizzlies and/or their habitat will be evaluated. FS 1977 and Interagency CEA (1986) procedures may be used.</li> <li>2. Where grizzly population and habitat use is likely, operating plans and special use permits will specify feasible measures to met agency grizzly management</li> </ul>			Pot Pot Pot	· ·
	Specials, Special Gement	Proposed activities reference in applications or proposals (a) mineral, gas and oil, and geothermal exploration and development, (b) water develo ments, (c) new resorts and/or resort expansion, (d) all oth special uses (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use permits (FSM 2700), and all uses which require no spe use i likely to affect grizzlies and habitat use is likely, operat plans and special use permits will specify feasible measure to meet appercy grizzly manage	↓ 1. 2.	In cases of grizzly human conflict, District Rangers in cooperation with state wildlife management agencies, will immediately identify the cause by determining where, why, when, and how the conflict occurred. If the problem bear is not determined to be a nuisance then correct the problem immediately by removing, if feasible, the man-related cause. Likely man-related causes are grizzly attractants and/or human activities interfering with grizzly use of habitat. Attractants include food and food odors associated with man. live- stock carrion, garbage, garbage dumps, prepared livestock and pet foods, camps or other dwellings, game meat in possession of man, and transportation and/or work livestock. Interference

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GRIZZLY BEAR MANAGEMENT GUIDELINES

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RESOLVE GRIZZLY-HUMAN CONFLICTS	Line Offic Instructio (1) fact (a)	when, and how the confl occurred; (b) who was involved; (2) grizzly control, including and phone numbers of persor from State wildlife managem	(4)	<ul> <li>(5) removal, including carcass disposal;</li> <li>(6) relocation, including maps of specific recommended relocation sites. Relocation plans with implications for both National Parks and National Forests will be reviewed and agreed upon by</li> </ul>		In cases of grizzly-human District Rangers in cooper state wildlife management immediately identify the o mining where, why, when, a conflict occurred. Correc immediately by removing the cause and controlling the	Likely man-related causes are givery attractants. Attractants include foods and food odors associated with man, live- stock carrion, garbage, garbage dumps prepared livestock and pet foods, un- sanitary camps ;or other dwellings and game meat in possession of man. The U.S. Fish and Wildlife Service and State U.S. Fish and Wildlife Service and State wildlife agencies will be requested to exercise control. See page $SI$ .
MINIMIZE GRIZZLV-HUMAN CONFLICT POTENTIAL	<ol> <li>Complete a biological assessment of existing or proposed land uses (under the Recreation, Range, Timber and Fire, and Range, Timber and Fire, and Range, Timber and Fire, and</li> </ol>	Minerais, watershead and sherry Uses Management Systems which could affect grizziles and/or their habitat. FS (1977) and Interagency CE Assessment (1986) procedures may be used.	<ol> <li>Use cumulative effects analysis to assess spatial and temporal effects on mortality risk.</li> </ol>	<ol> <li>Initiate consultation procedures with the U.S. Fish and Wildlife Service, as necessary. If the biological assessment results in a "may affect" determination. BLM should initiate consultation related to mineral leasing.</li> </ol>	I. Identify grizzly-human conflict potential within the different resource management systems and recommend measures to minimize conflict potential.	<ol> <li>Timber sale and fire management EAs and contracts will specify measures to meet agency grizzly management goals and objectives. Contractors will be required to coperate fully in meeting these goals and objectives.</li> </ol>	Where grizzly occurrence is likely, temporary living facilities for timber sale operators will be closely regulated. Edibles and/or garbage will not be allowed to accumulate or be available to grizzlies. Bear proof refuse grizzlies. Abear proof refuse for prevent overflow will be required. Requirements will be included in sale contracts.
SITUATION: 3 MAINTAIN AND IMPROVE HABITAT	Grizzly habitat needs are not a consideration.		·· ·	· ·	4	Grizzly habitat needs are not a ¹ consideration.	N
MANAGEMENT S MGMT. SVSTEM OR ACTIVITY	Wildlife Management					Timber and Fire Management	

MANAGEMENT MGMT SYSTE	SITUATION: 3 MAINTAIN AND IMPROVE	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
OR ACTIVITY A muber and Fire Management (Continued)		3. In fire camps, measures will be taken to avoid attracting grizzles. Proper food storage and refuse disposal will be required. No edibles or garbage will be left after suppression 0r management efforts have ended.	
tuanagement Banagemen Wanagemen Management Variative Record 20	Grizzly habitat needs are not a consideration.		In cases of grizzly-human conflict or grizzly livestock depredation, District Rangers in cooperation with state wild- life management agencies, will mendiately identify the cause by distorning when, when, why, and how the
14	•	permits and annual permittee plans. Permittees' full cooperation in meeting these goals and objectives will be a condition to their receiving and holding permits.	conflict occurred. Correct the problem formediately by removing the man-related cause and controlling the problem bear. Likely man-related causes are grizzly attractants. Attractants include foods attractants associated with man.
		<ol> <li>The allotment management plan will specify measures for the timely removal, destruction of treatment of livestock carcasses to avoid positive conditioning of grizzlies to livestock carrion as food. Allotment plans will also require that all human and</li> </ol>	
		prepared livestock and per your and human refuse associated with livestock operations be made unavailable to grizzlies through proper storage, handling, and disposal. These measures will be reflected in grazing permits and annual permittee plans.	
Recreation Management	Grizzly habitat needs are not a consideration.	<ol> <li>All recreation oriented EAs and concessionaire special use permits will specify measures to meet agency grizzly management goals and objectives. Per- goals and objectives. Per- mittees' full cooperation in metting these goals and objectives will be a condition to their receiving and holding permits.</li> </ol>	In cases of grizzly-human conflict, District Rangers in cooperation with state wildlife management agencies, will immediately identify the cause by determing where, why, when, and how the conflict occurred. Correct the problem fmmediately by removing the man-related fmmediately by removing the problem bear. cause and controlling the problem bear. Likely man-related causes are grizzly attractants. Attractants include food attractants associated with man, live-
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RESOLVE GRIZZLY-HUMAN CONFLICTS	stock carrion, garbage, garbage dumps, prepared livestock and pet foods, un- sanitary camps or other dwellings and game meat in possession of man. The U.S. Fish and Wildlife Service and State wildlife agencies will be requested to exercise control.			· · · · · · · · · · · · · · · · · · ·
MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	2. In developed recreation sites, where grizzly occurrence is likely, bear-proof garbage containers will be used with regularly scheduled garbage removal to prevent overflow. All human and prepared livestock and pet foods and human refuse will be made unavailable to grizzlies through proper storage, handling, and disposal. Carcasses of live- stock and wildlife along major highways will be destroyed or removed immediately. To accomplish this in National Forests, District Rangers will notify State Highway Departments to remove carcasses of animais	3. For dispersed recreation use, a "Pack-In-Pack-Out" refuse policy will be enforced. All human and prepared livestock and pet foods and human refuse will be made unavailable to grizzlies through proper storage, handling, and disposal. Carcasses of livestock and wildlife along roads and trails will be destroyed, removed, or treated to repel grizzlies as soon as practical.	<ol> <li>Where grizzly occurrence is likely, resort operators under special use will use bear-proof garbage containers and make regular collections from all containers.</li> </ol>	5. Permits for spring and autumn bear baiting for purposes of sport hunting will be issued with the following conditions: baits will not be permitted within one mile of any permitted camp, picnic ground, VIS center, occupied dwelling, private
ON: 3 MAINTAIN AND IMPROVE HABITAT		•		
MANAGEMENT SITUATION MGMT. SYSTEM OR ACTIVITY	Recreation Management (Cuntinued)			· ·

GUIDELINES
MANAGEMENT
BEAR
GRIZZLY

MANAGEMENT SITUATION: MGMT. SYSTEM OR ACTIVITY	t: 3 Maintain and Improve Habitat	MINIMIZ	MINIMIZE GRIZZLV-HUMAN Conflict Potential	RESOLVE GRIZZLY-HUMAN CONFLICTS
Recreation Management (Continued)		property occurren be a min and at 1 from sys one quar streams.	property or within an area where occurrence is likely. Baits must be a minimum of two miles apart and at least one quarter mile from system trails and roads and one quarter mile from permanent streams.	
		6. Feeding of permitted.	feeding of bears will not be permitted.	
		7. Open garba permitted.	Open garbage dumps will not be permitted.	· · ·
· · ·		8. Where griz 11kely, al 11kestock associated coperations able to groper disposal refuse pol	Where grizzly accurrence is likely. all human and prepared livestock and pet foods associated with outfitter operations will be made unavail- oper storage. handling, and proper storage. handling, and disposal. A "Pack-In-Pack-Out" refuse policy will be enforced.	
		<ol> <li>Outfitters encouraged least 100 y areas. Gam yards from not be hung so that the carcass is feet above object and from the ne Suspension off ten fee</li> </ol>	Outfitters and hunters will be encouraged to hang game meat at least 100 yards from sleeping areas. Game mean more than B0D yards from sleeping areas need not be hung. Meat should be hung so that the lowest portion of the carcass is suspended ten vertical feet above the highest ground object and four horizontal feet object. Suspension ropes should be tied off ten feet or higher to trees	
		10. Signs ident and recomme within, wil heads, deve backcountry	<pre>Signs identifying grizzly range and recommended human conduct within, will be placed at trail- heads, developed campgrounds and backcountry campsites.</pre>	
		11. Grizzi be tem use.	Grizzly bear trapping sites will be temporarily closed to human use.	· ·

RESOLVE GRIZZLY-HUMAN	In cases of grizzly-human conflict, District Rangers in cooperation with state wildlife management agencies, will immediately identify the cause by determining, where, why, when, and how the conflict occurred. Correct the problem immediately by removing the man- related cause and controlling the man- problem bear. Likely man-related causes are grizzly attractants. Attractants include foods and food odors associated with man, livestock carrion, garbage, garbage dumps, prepared livestock and pet foods, unsanitary camps or other dwellings and game meat in possession of man. The U.S. Fish and Wildlife Service and State wildlife agencies will be re- quested to exercise control.
MINIMIZE GRIZZLY-HUMAN	<ol> <li>All operating plans and special use permits will specify measures to meet agency grizzly management goals and objectives and methods of meeting objectives. Permittees' and operators' full coooperation in meeting goals and objectives will be a condition to their receiving and holding permits and plans.</li> <li>Operation plans and special use use permits will specify food storage and handling and garbage disposal standards. The general rule will be that grizzly attractants, as defined under conflict resolution, will be made be made unavailable to grizzlies.</li> </ol>
MANAGEMENT <u>SITUATION:</u> MGAT.SYSTEM MGAT.SYSTEM MAINTAUNATU	Grizzly habitat needs are not a consideration.
MANAGEMENT SIT MGMT, SVSTEM	Minerals Watershed, Bad Special Uses Management

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Grizzly-human conflict resolution is not **RESOLVE GRIZZLY-HUMAN** CONFLICTS a consideration. resource management systems and recommend measures to minimize conflict potential. grizzly-human conflict potential within the different MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL ₽. ŝ e Identify 8 Enlist National Park grizzly bear manageand objectives will be a condition for potential grizzly populations and habitat. For example, inform the public of National Forest and guidelines to assure they are properly and effectively used. Recommend improvements in guide-lines and application procedures. measures to be taken independent Monitor the application of these All proposed logging and burning activities will be evaluated for their likely effects upon potential grizzly populations and/or their habitat. FS (1977) and Interagency CEA (1986) proand/or improve (NF, BLM) grizzly habitat and meet grizzly manage-Contractors' full cooperation in activities which will adversely affect potential grizzly bear populations and/or their habitat (NP burning) meeting grizzly management goals EAs will specify agency grizzly management goals and objectives and measures to meet them. Contracts will include specific sale and fire management systems, to improve conditions their support in meeting these to their receiving and holding measures to protect, maintain Logging and/or fire management of other resource management Biological Opinion, specify the ment goals and objectives. MANAGEMENT SITUATION: 4 MGMT. SYSTEM MAINTAIN AND IMPROVE ment goals and objectives. awareness of contracts (NP burning). goals and objectives cedures may be used HABITAT full Timber With ~ ~ Ļ, N. ю. MGMI. SYSTE OR ACTIVITY (Continued) Management Timber and Management Wildlife Fire

GRIZZLY BEAR MANAGEMENT GUIDELINES

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MGMT. SYSTEM OR ACTIVITY	MAINTAIN AND IMPROV HABITAT	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLITTS
Fire Management (Continued)	will not be permitted. Adverse population effects would be population reductions and/or grizzly positive conditioning. Adverse habitat effects would be reductions in habitat quantity and/or quality (NP burning).		
		4. Grizzly habitat enhancement through silvicultural treatment, sale area improvement or managed burning will not be done in close proximity to private property, resorts, campgrounds, summer homes, other recreation sites or areas which could bring grizzlies in contact with humans.	
	<pre>(a) Silvicultural treatment In some habitat types in grizzly range, timber harvest, especially selection and group selection cuts and small clearcuts with no dozer small clearcuts with no dozer</pre>		
	priving of stash and no mechanical soil scarification, produces important amounts of herbs and shrubs bearing fruits eaten by grizziles. production of orizziv food		
	··· ·· ·· ··		
	practices can be used in some forest stands to increase their grizzly food value. It also indicates that grizzly habitat quality can probably be increased or enhanced by producing high quality grizzly foods in openings in forest habitat trues where food	· · ·	
	production and potential grizzly use is lower. Habitat types for possible treatment are subalpine fir/huckleberry, spruce/horsetail, spruce/		

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GRIZZLY BEAR MANAGEMENT GUIDELINES

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UNIZILT DEAK MANAUEMEN! GUIDELINES

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MGMT. SYSTEM MAINTAL OR ACTIVITY		Composition and grizzly food sc cuts which have cast burned and extensive soil are comparable natural burns. that such man can become the equivalents of which produce 1 grizzly foods.	Group selection acre irregularly cuts in which pr slash removal is licate wildfire. desirable grizzly food pro ings. Desirable features include more leave or clude more leave or clude types where soil impedes the rees grizzly foods (2 less, preferably configuration),	posal by sp burning in types and t no slash di
MAINTAIN AND IMPROVE Habitat	alpine fir/sweetscented bed- straw, and subalpine fir/blue- joint. Others may be iden- tified through future studies. Actual site specific vegeta- tion responses will dictate the specific type of treat- ment and plant association to be treated. In general, or steed cover should provide a balance of all successional stages on a sustained yield, even-flow basis.	Composition and coverage of grizzly food sources in clear- cuts which have been broad- cast burned and are without extensive soil scarification are comparable to those of natural burns. This indicates that such man-made openings can become the vegetative equivalents of burns, some of which produce important	Group selection cuts and 10-20 acre irregularly shaped clear- cuts in which prescribed fire slash removal is used to dup- licate wildfire, appear desirable for creating high grizzly food producing open- ings. Desirable clearcut ings. Desirable clearcut features include: (1) one or more leave or cover patches in cuts over 10 acres (2) minimum soil scarification in habitat types where soil disturbance impedes the reestablishment of grizzly foods (20 percent or less, preferably in a strip configuration). (3) slash dis-	posal by spring broadcast burning in suitable habitat types and terrain, or possibly no slash disposal and (4)
MINIMIZE GRIZZLY-HUMAN Conflict Potential				
RESOLVE GRIZZLY-HUMAN CONFLICTS				

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MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	ric stream ows. marshes, ows. marshes, l disturbance r removal. hould be ize soil ize soil ize soil ize soil s desirable. areas during s desirable. areas during t should be t should be t t should be	red road abitat collect- fmprove when the ation ation	· · · ·	
RESOLVE GRIZZLY-HUMAN CONFLICTS				· · · · · · · · · · · · · · · · · · ·

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MANAGEMENT SITU MGMT, SYSTEM OR ACTIVITY	MANAGEMENT SITUATION: 4 MGMT. SVSTEM OR ACTIVITY	MINIMIZE GRIZZLV-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
Timber and Fire Mangement (Continued)	including huckleberry and buffaloberry. Burns resulting from wildfires in this century are important producers of producers of fruiting shrubs which provide grizzly food energy. Natural fire fre- quency appears necessary to maintain or expand burn components. Outside of wild- erness areas, prescribed burn- ing in habitat types which are not suitable for timber pro- duction could help to approx- imate a natural fire frequency. Fire management planning with- in wilderness areas, which would allow wildfires to burn within certain areas and conditions, would be valuable in improving habitat. Forest greatest potential for improve- ment include whitebark pine' subalpine fir, and subalpine fir/huckleberry habitat types.		
ທີ	Silviculture treatments will be designed to maintain or favor a mature cone producing stand of whitebark pine where it exists within a sale. Generally, white- bark pine should not be marked for cutting unless it is expected to die before the next cutting entry.		· · · · · · · · · · · · · · · · · · ·
	κ	All roads used for timber sale purposes will be single purpose roads only, and will be closed to public use not associated with the timber sale operation and administration if the road provides access to a Management Situation 1 area.	

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Exceptions to this could be: (a) Seasonal closures if data show grizzlies' use of the Management Situation 1 area to be seasonal.

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	SITUATION: 4 EM MAINTAIN AND IMPROVE	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
OR ACTIVITY Timber and Fire Management (Continued)		<ul> <li>(b) Roads could be open for short periods, such as for big game seasons in the fall, if human use is of short duration.</li> </ul>	
Range Management	1. All livestock uses on allotments, including recreation horse allot- ments, will be evaluated for its effect upon grizzly habitat. USDA FS (1977) and Interagency CEA (1986) procedures may be used.	-   <b>A</b>	Grizzly-human conflict resolution is not a consideration.
	2. The allotment management plans will specify masures to meet will specify masures to meet agency grizzly management goals and objectives. These measures will be reflected in grazing permits and annual permittee plans. Permittees' full coop- eration in meeting grizzly manage- ment goals and objectives will be a condition to their receiving and holding permits.	2.	· · · · · · · · · · · · · · · · · · ·
	3. The allotment management plan will specify measures to maintain food production areas of potential importance to grizzlies (i.e., wet alpine and subalpine meadows, stream bottoms, aspen groves and other riparian areas). These measures will be reflected in grazing permits and annual	°.	
	permittee plans. Measures could include, but not be limited to. closing grazing units temporarily, excluding fencing, and setting livestock utilization rates at levels compatible with potential grizzly needs. Range condition class objectives will be good to excellent to achieve range	· · · · ·	
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MGMT. SYSTEM OR ACTIVITY	MAINTAIN AND IMPROVE Habitat	MINIMIZE GRIZZLV-HUMAN Conflict Potential	RESULVE BALZELY-HUMAN CONFLICTS
-Yaak GB Administrative R	4. Grazing activities which would adversely affect grizzly bear populations and/or their habitat will not be permitted. Adverse population effects would be population reductions and/or grizzly positive conditioning. Adverse habitat effects would be reductions in habitat quantity and/or quality.	• 6 Kunnen	
Recreation Management	<ol> <li>The following uses, developments         or activities will be evaluated         (FS (1977), Interag. CEA (1986) to         determine their compatibility with         grizzly habitat requirements:         (a) proposed roads;         (b) proposed trains (foot, horse,         sanowmobile, and ski);         (c) proposed trains (foot, horse,         sanowmobile, and ski);         (c) proposed trains (foot, horse,         aceas, visitor information         facilities and other facilities         and structures for recreation         or administrative use;         designated for grazing non-         fitter pack and saddle stock         grazing areas.         (d) existing or proposed activities         resorts, cabins, and out-         fitter pack and saddle stock         grazing areas;         (f) existing or proposed activities         stock, and;         resorts or activities or         uses which would adversely affect         stock and subted.         removed, relocated or denied.         removed, relocated or denied.         removed, relocated or denied.         reductions in habitat quantity         and/or         quality.         reductions in habitat quantity         reductions and/or</li></ol>		Grizzly-human conflict resolution is not a consideration.
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MANAGEMENT S MGMT. SVSTEM OR ACTIVITY	SITUATION: 4 Maintain and improve Habitat	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
Recreation Management	2. All recreation oriented EAs and concessionaire special use permits will specify measures to meet agency grizzly management goals and objectives. Permittees'full cooperation in meeting grizzly management goals and objectives will be a condition to their receiving and holding permits.	7	
	<ol> <li>Special care will be taken to assure that camping and/or grazing activities will not degrade or compromise important potential grizzly use areas (forage sites, denning areas or travel routes).</li> </ol>	3.	
	4. Special care will be taken to assure that trail and road construction does not degrade important potential grizzly use areas.	4.	
Minerals, Watershed, and Special Uses Management	<ol> <li>Proposed activities referenced in applications or proposals for (a) mineral, gas and oil, and geo- thermal exploration and develop- ment, (b) water developments, (c) new resorts and/or resort</li> </ol>	· [	Grizzly-human conflict resolution is not a consideration.
	expansion, tu art other spectal uses (FSM 2700), and (e) all uses which require no spectal use permits (FSM 2708) which would likely affect grizzlies and/or their habitat will be evaluated (FS (1977), Interagency CE Assess- ment (1986)) procedures		·
	2. All operating plans and special use permits will specify measures to meet agency grizzly management goals and objectives. Permittees' and operators' full cooperation in meeting grizzly management goals and objectives will be a condition	₹.	
	to their receiving and holding approved permits and plans.		

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GUIDELINES	
MANAGEMENT	
BEAR	
GRIZZLY	

MGMT. SYSTEM MA OR ACTIVITY	MAINTAIN AND IMPROVE Habitat	MINIMIZE GRIZZLY-HUMAN CONFLICT POTENTIAL	RESOLVE GRIZZLY-HUMAN CONFLICTS
Mfnerals, Watershed, and Special Uses Management (Continued)	<ol> <li>Activities which would adversely #ffect grizzly bear populations and/or their habitat will not be permitted. Adverse population effects could result from: (a) land surface disturbances, (b) water table alterations, (c) reservoirs, rights-of-way, roads, pipelines, canals, transmission lines, or other structures, (d) ines, or other structures, (d) increased human presence, (e) loods. Areas of vital potential foods. Areas of vital potential importance are identified through the evaluation process (USDA Forest Service, 1977).</li> </ol>		
	4. Operating plans and special use permits will include specific measures to protect and maintain potential grizzly habitat. Measures will address items a-f under 3 above, and others as necessary.	4.	

RESOLVE GRIZZLY-HUMAN CONFLICTS	If grizzly-human conflict accurs, District Rangers in cooperation with State wildlife management agencies will immediately identify the cause by determining where, why, when, and how the conflict occurred. Correct the problem immediately by removing the man-related cause and controlling the problem bear. Likely man-related causes are grizzly attractants. Attractants include food and food odors associated with man. live- stock carrion. garbage, garbage dumps, prepared livestock and pet foods, prepared in possession of man. The U.S. Fish and wildlife Service and State wild- life agencies will be requested to
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MINIMIZE GRIZZLY-HUMAN Conflict Potential	Minimizing grizzly-human conflict is not a consideration. In the rare event that grizzlies occur in the area, no action is necessary unless conflict is imminent, proceed as indicated under conflict resolution.
TUATION: 5 MAINTAIN AND IMPROVE HABITAT	Grizzly habitat needs are not a necessary consideration. Main- tenance of suitable and available but unoccupied habitat is an option. If taken, direction under MAINTAIN AND IMPROVE HABITAT. SITUATION 4, for all management systems and activities would apply.
MANAGEMENT <u>SITUATION: 5</u> MGMT. SVSTEM OR ACTIVITY	All Management Systems and Activities

#### PLAN FOR DETERMINING GRIZZLY BEAR NUISANCE STATUS and FOR CONTROLLING NUISANCE GRIZZLY BEARS

## I. <u>Preamble</u>

THE INTERAGENCY GRIZZLY BEAR COMMITTEE RECOGNIZES THAT:

WHEREAS, it is mutually recognized that it is necessary to:

- A. Comply with Section 7 of the Endangered Species Act which requires Federal agencies to protect the grizzly bear (<u>Ursus arctos horribilis</u>), a threatened species, and its habitat.
- B. Comply with Fish and Wildlife Service rules and regulations relating to the removal of nuisance bears (FEDERAL REGISTER, Vol. 40, No. 145 Monday, July 28, 1975).
- C. Comply with Fish and Wildlife Service rules and regulations relating to interagency cooperation under the Endangered Species Act with emphasis on formal consultation related to management actions affecting grizzly bears (FEDERAL REGISTER, Vol. 43, No. 2 Wednesday, January 24, 1978).
- D. Identify the responsibilities of the respective agencies for determining grizzly bear nuisance status and for controlling nuisance grizzly bears.
- E. Provide a mutually developed and mutually acceptable plan which contains a uniform interagency approach for management of grizzly bears and their habitat and for determining grizzly bear nuisance status and for controlling nuisance grizzlies.
- F. Provide for an Aggregate Consultation on all management actions related to grizzly bears specified in the IGBC Guidelines, including nuisance bear control measures.

NOW, THEREFORE, in consideration of the above premises, the parties hereto agree as follows:

- A. To accept the "Guidelines" as the primary source for management decisions involving grizzly bears and their habitat and not to determine grizzly bear nuisance status or control nuisance bears without assistance of other appropriate parties to the agreement.
- B. The Forest Service, as the public land administering agency on National Forests, shall:

Coordinate all actions and participate in decisions relating to the determination of grizzly bear nuisance status and controlling nuisance grizzly bears on National Forest lands. Coordination means requesting assistance and participation of the Fish and Wildlife Service, the Departments, and, in some cases, the Park Service.

C. The Fish and Wildlife Service, as advisor to the Federal land management agencies in matters pertaining to fish and wildlife management, shall:

In those cases when the Fish and Wildlife Service is aware of the grizzly-human conflict situation first, initiate the coordination process by notifying the Departments and the Federal land management agency and participate in the determination of grizzly bear nuisance status, and shall provide necessary expertise required for the control of nuisance grizzly bears.

D. The Departments as the agencies responsible for the management of the States' wildlife resources, shall:

In those cases when the Departments are aware of the grizzly-human conflict situation first, initiate the coordination process by notifying the appropriate Federal land management agency and the Fish and Wildlife Service and otherwise participate in the determination of grizzly bear nuisance status and shall contribute necessary expertise, operational services or other acceptable methods for the control of nuisance grizzly bears.

E. The Park Service, as the agency responsible for the management and administration of all resources in the National Parks shall:

Govern the taking of grizzly bears in National Parks. Park Service personnel shall be invited to participate in the determination of grizzly bear nuisance status and to participate in the relocation of those bears judged to be potentially suitable for relocation into National Parks.

- F. It is Mutually Agreed and Understood By and Among the Said Parties that:
- 1. All IGBC agencies will exchange phone contact lists of designated representatives assigned to implement these provisions and to decide on nuisance bear status.
- 2. All IGBC agencies will make an effort to have permittees notify the land management agency of all grizzly bear associated problems and to notify the respective State wildlife agencies when property damage occurs.
- 3. Relocations of bears between grizzly bear ecosystems will be done in accordance with State and Federal laws, regulations, and policy.
- 4. Amendments to this Plan may be made at any time with written concurrence of the IGBC and appropriate consultation.
- 5. Each IGBC agency and the Bureau of Indian Affairs (BIA) (Tribes) will coordinate its respective grizzly bear control procedures in full accordance with this Plan.
- 6. This Plan will become effective on the publication of the final notice in the Federal Register on the Interagency Grizzly Bear Guidelines. This Plan shall automatically be renewed annually and remain in force until revoked or amended.

- 7. Any IGBC agency may terminate participation in this Plan upon 120 days written notice to each of the other agencies.
- 8. The attached Plan provides operational guidelines for determining grizzly bear nuisance status and for controlling nuisance grizzly bears in the conterminous United States. Handling and control of nuisance grizzly bears will be governed by the grizzly bear special rule (50 CFR 17.40) and per discussions and/or resulting agreements between IGBC member agencies and APHIS (Animal and Plant Health Inspection Sevice) animal damage control.
- 9. The "Guidelines and a "Plan" have been submitted to the Fish and Wildlife Service as a formal aggregate consultation since the projects, activities, and programs are logically grouped, their effects should be similar and such an aggregate consultation should greatly economize consultation activities related to and required for grizzly management.

The purpose of this document is to:

- 1. Document management direction agreed upon by participating agencies with respect to determination of grizzly bear nuisance status, and the capture, translocation, release and/or disposal of nuisance grizzly bears.
- 2. Guide managers in making rapid, effective, and responsible decisions and initiating action regarding grizzly bear control actions.

# II. <u>Guidelines for Determining Grizzly Bear Nuisance Status</u>

These guidelines apply to the Management Situation Areas defined in <u>Interagency</u> <u>Grizzly Bear Guidelines</u>. In Management Situations Areas 1 and 2, grizzlies must be determined to be a nuisance by specific criteria before they can be controlled. In Situation Areas 3 and 5, any grizzly involved in a grizzly-human conflict situation is considered a nuisance and will be controlled. Control must be compatible with Grizzly Bear Recovery Plan objectives for limiting man-caused grizzly mortality and with Federal and State laws and regulations.

A grizzly bear may be determined to be a nuisance if any or all of the following conditions apply:

- Condition A. The bear causes significant depredation to lawfully present livestock or uses unnatural food materials (human and livestock foods, garbage, home gardens, livestock carrion, and game meat in possession of man) which have been reasonably secured from the bear resulting in conditioning of the bear or significant loss of property.
- Condition B. The bear has displayed aggressive (not defensive) behavior toward humans which constitutes a <u>demonstrable</u> immediate or potential threat to human safety and/or a minor human injury resulted from a human/bear encounter.

Condition C. The bear has had an encounter with people resulting in a <u>substantial</u> human injury or loss of human life.

The following are considerations in determining grizzly nuisance status under Condition A:

Unnatural foods were reasonably secure from grizzlies. Reasonably secure means all steps were taken to comply with guideline objectives (a) Maintain and Improve Habitat and (b) Minimize Grizzly-Human Conflict Potential. The following are examples of reasonably secure conditions:

- (1) sight and/or smell of edibles and/or garbage was not dominant (i.e., food was canned or in other sealed containers) and edibles and/or garbage was made unavailable (hung out of reach or secured in a solid-sided-bear-proof structure). Livestock use did not occur in habitat components critically important to grizzlies in time or space;
- (2) livestock and wildlife carcasses were removed, destroyed or treated so that the material would not reasonably be expected to attract grizzlies.
- (3) game meat was stored at least 100 yards from any sleeping area;
- (4) no baits were placed for purposes of sport hunting black bears, nor did any artificial feeding of bears occur.

The following are considerations in determining grizzly nuisance status under Condition B:

The bear has displayed aggression toward man. Sound evidence must be available to establish that the bear acted aggressively without provocation (not defensively), and that such behavior constituted a threat to human safety and/or a minor human injury occurred as a result of a <u>nondefensive</u> grizzly attack.

The following are considerations in determining grizzy nuisance status under Condition C:

An encounter with people which resulted in a <u>serious</u> human injury or loss of human life. A bear that is involved in an accidental encounter with people, defense of young, or in a provoked attack (the bear acted defensively not aggressively) which results in a minor human injury should not be considered a nuisance under this condition.

If information is insufficient to clearly establish the above requisites under Conditions A, B, and C, then the involved bear(s) probably should not be determined a nuisance under that condition. The criteria in Table 1 should be used to guide control actions.

#### Preventive Action

Certain specific grizzlies have known behavioral patterns, which, when combined with location, time and other factors, indicate that an incident is highly probable. In such situations, direct preventive action designed to safely remove the bear(s) from the situation (prior to an occurrence which would result in nuisance status and possible loss of the bear(s) to the ecosystem) can be implemented regardless of the Management Situation involved. Human activities must be in compliance with applicable guidelines to minimize potential for grizzly-human conflicts for that Management Situation. Control actions should be designed to capture and remove the specific target bear(s).

In other situations, a bear may move into a visitor use or residential area without causing an incident, but there is indication that due to its persistent use of the area, it may become overly-familiar with humans and may become habituated. The animal may be relocated if a suitable release site (free of circumstances similar to the capture site) is available. This is an action to prevent a possible incident or habituation of the bear. It does not count as an offense when determining the disposition of the bear (using Table 1), should the bear be recaptured in a future control action.

# III. Grizzly Bear Control Action

- 1. If a grizzly bear is not determined to be a nuisance after consideration of criteria in Section II, no control action will be initiated.
- 2. Capture of nuisance grizzly bears outside National Parks is the primary responsibility of the State Fish and Game Agency in conjunction with the U.S. Fish and Wildlife Service. The National Park Service is responsible for bear capture within National Parks. Figure 1 is a schematic diagram showing the sequence of notification and the decision process which will be used in all grizzly control actions. Data forms for recording information about the captured bear(s) and the control action are provided in the Appendix. Nuisance bear forms should be completed by the on-site official and forwarded to the Grizzly Bear Recovery Coordinator for subsequent
- 3. Nuisance grizzlies that are sick or injured beyond a point where natural recovery is likely will be removed from the population. Other nuisance grizzlies will be controlled according to the guidelines in Table 1.
- 4. After a bear has been captured during a control action, the decision on where to relocate the bear or whether to kill it must be made within 24 hours of its capture. The relocation must be made as expeditiously as possible after the disposition of the bear is determined. Bears will not be held in a snare but will be immobilized, marked, and placed in an appropriate holding facility (can be a culvert trap).

With due consideration of mortality risk associated with immobilization, grizzly bears released should be marked with numbered ear tags, lip tatoo, and functioning radio transmitters. Monitoring will be a cooperative effort between State and Federal agencies. On-site release may be accomplished if the bear taken is: (a) determined not to be a nuisance bear or; (b) on a first offense when the bear cannot be relocated because of terrain, weather, or inaccessibility to a relocation site. Females with <u>cubs</u>, where relocation is identified in the above table, will be released on-site if relocation is not feasible for previously stated reasons or if the cubs cannot also be caught and relocated with the female. An on-site release will not be conducted in developed areas. On-site releases will be accomplished after approval of the land management agency if the release is monitored in such a way to determine its success or failure with respect to bear survival and conflict resolution.

- 5. If a bear is to be killed, the action will be completed only by authorized State or Federal or Tribal employees. A grizzly bear mortality report form should be completed and the carcass forwarded to the Montana Department of Fish, Wildlife and Parks lab in Bozeman, Montana, for examination and subsequent disposition.
- 6. The initiating agency may "take back" a relocated bear, according to case-by-case agreements.
- 7. The State Fish and Game Regional Office will be the principal coordination point for all control actions, unless specified otherwise in the initial discussions on a particular incident.

The public and news media are extremely interested in all operations involving grizzly bears. To insure that they receive the proper information, it is critical that information be shared between all involved agencies in an accurate and timely manner. Planned news releases will be the responsibility of the State Fish and Game agency in close consultation with the administering land management agency (or Tribe) and the Grizzly Bear Recovery Coordinator.

# Table 1. GUIDELINES FOR GRIZZLY BEAR CONTROL ACTION (See Footnotes)

TYPE OF GRIZZLY	NO OFFENSE OFFENSE	0 1st	ONDITI 2nd	ON A 3rd	CONDI 1st	TION B 2nd	CONDITION C
Females	an a	<u>_</u>	<u></u>	<u>.</u>		<u> 2na</u>	<u>1st</u>
Orphaned Cub Cub Yearling Subadult Prime Adult	*** RLS/REL	REL REL REL	REL REL REL	REM REM	REL REL REL	REM REM REM	REM REM REM
with Young Old Adult Old Adult		REL. REL	REL REM	REM (Adult)	REL REM	REM (Adult)	REM (Adult) REM
with Young		REL.	REL	REM (Adult)	REL	REM (Adult	REM ) (Adult)
<u>Males</u> Orphaned Cub	*** RLS/REL						
Cub Yearling Subadult Prime Adult Old Adult		REL REL REL REL REM	REL REM REM	REM dire sous dire data titue data gave flow	REL REM REM REM REM	REM 	REM REM REM REM
* REL – RELOCA (Nu	ATE ^{**} REM - isance grizz] where natur	lies th	hat ar	POPULAT e sick o is like	ION r iniu	red havond	EASE ON SIT
Cub	Young of th		•				~~~ ~ /

#### TYPE OF PROBLEM

 Where natural recovery is likely will be removed.)

 Cub
 - Young of the Year

 Yearling
 - 12 to 24 months old

 Subadult
 - 24 to 48 months old

 Young
 - Cub, yearling, or subadult accompanying mother

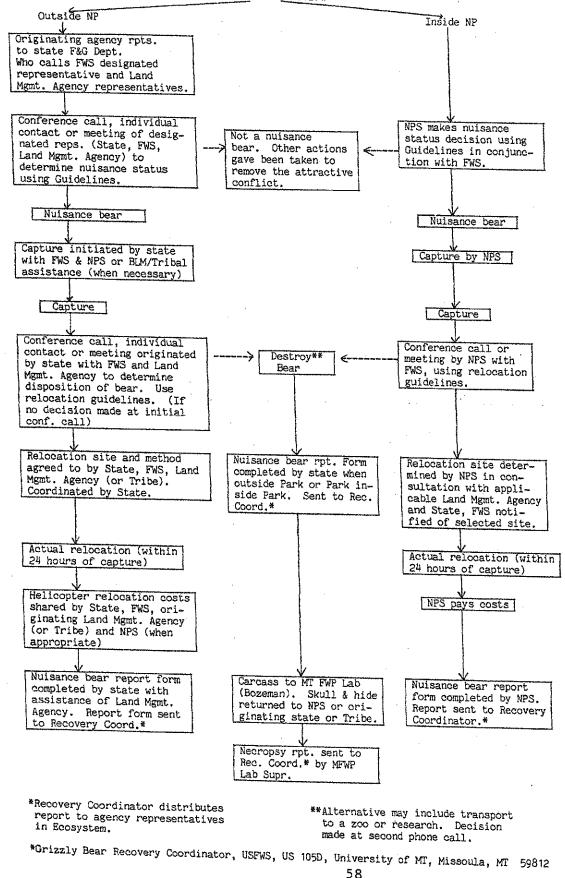
 Old
 - Indicates advanced are and deteriored when it is in the subadult is in the subadult is in the subadult is in the subadult is in the subadult in the subadult is in the subadult in the subadult is in the subadult is in the subadult in the subadult in the subadult in the subadult is in the subadult in the suba

- Indicates advanced age and deteriorated physical state, indicators are tooth wear and physical appearance

Grizzly Bear Recovery Coordinator, USFWS, HS 105D, University of Montana, Missoula, MT 59812

#### ACTION PROCEDURES FOR DETERMINING BEAR NUISANCE STATUS AND MANAGEMENT ACTION

Bear-Related Problem



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## FIGURE 2

# ACTION PROCEDURES IN CASES OF GRIZZLY-HUMAN CONFLICT

## All grizzly bear habitat

- 1. All incidents of grizzly-human conflict will be investigated immediately and a factual and detailed report (answering who, what, when, why, where and how) submitted to the line officer. In case of human death, notify the County Sheriff and County Coroner. In case of grizzly death, notify the U.S. Fish and Wildlife Service and the appropriate State wildlife management agency.
- 2. State wildlife management agencies and/or the U.S. Fish and Wildlife Service, National Park Service, Tribe will handle nuisance grizzlies.
- 3. County sheriffs will have primary responsibility for backcountry rescue outside National Parks and Indian Reservations.
- 4. The site of an incident will be closed immediately to human use until the investigation is complete and the problem solved or corrected. This closure is the responsibility of the managing agency.
- 5. All incidents resulting in serious human injury or death will be investigated by an interagency team with members from the county law enforcement agency, State wildlife management agency, land management agency, U.S. Fish and Wildlife Service, NPS and appropriate outside experts as necessary.
- 6. News releases involving grizzly-human conflict incidents will be coordinated through all concerned agencies.

Further, in National Parks,

- 7. All grizzly-human conflicts will be investigated and a factual and detailed bear incident report submitted to the Superintendent's Office. In incidents where injury and/or property damage have occurred, the investigating officer's report will be supplemented when possible by the statements of witnesses to the incident. All incidents of grizzly inflicted human death will be investigated by an interagency investigation team (as in No. 5).
- 8. All management actions involving bears will be reported by telephone to the Bear Management Office/Resource Management Office.
- 9. All grizzly bear sightings will be recorded in the station log and telephoned daily to the Bear Management Office/Resource Management Specialist. Information shall include observer, data, location, time, number, activity, and if possible, sex, age class, and individual description.

## IV. Relocation Sites

The proper selection of a relocation site is dependent upon many factors including age, sex, history of the bear, type of offense, season, land uses/human activity, distance from capture site and overall logistics. The rate of successful relocations can be materially affected by the selection of the relocation site. Distance moved appears to be one of the major factors, so bears should be moved as far as possible within the constraints applied by other considerations.

Potential release areas for grizzly bears are listed below. Specific site selection will be made by agreement among all designated agency representatives participating in each grizzly bear control action. Release of bears at sites not listed will require the specific approval of the receiving land management agency.

	SITE	NF	LOCATION	STATUS	GENERAL SUITABIL	L ITY
		tat.	T. R.		OFFENDING	SEASON
<b>4</b> .	Red Cr. Divide	Shoshone	54N 109W	Wilderness	Any	Any
2.	Hoodoo Peak	Shoshone	53N 109W	Wilderness	Non- livestock	Any
3.	Upper Sunlight	Shoshone	54N 107W	Non- Wilderness	Any	Any
Ц.	Upper Crouch & Eagle Creeks	Shoshone	51N 109W	Wilderness	Âny	Any
5.	Thoroughfare Plateau	Bridger- Teton	47N 108W 47N 109W(E1/2)	Wilderness	Any	Any
б.	Buffalo Plateau	Bridger- Teton	45N 109W(E1/2) 108 46N 109W(E1/2) 108	Wilderness	Non- campground	Any
7.	Two Ocean Plateau	Bridger- Teton		Wilderness	Non- campground	Any
8.	Mountain Creek	Bridger- Teton	49N 109W 50N 109W	Wilderness	Any	Any
9.	Coulter Cr. & Big Game Ridge	Bridger- Teton	48n 113w 48n 114w	Wilderness	Any	Prior to Sept. 1
	Monument-Sage	Gallatin	T10S R5E	Non- wilderness	On a case-by- case basis	Prior to Sept. 1
	Hell Roaring Buffalo Fork	Gallatin	T9S R10E T9S R11E	Wilderness	On a case-by- case basis	Prior to Sept. 1
12.	Yellowstone				On a case- by-case basis	Any

#### Flathead National Forest

Forest criteria for accepting problem grizzly bears:

- 1. No record of unprovoked encounters with people.
- 2. In good physical condition and not injured.
- 3. Each bear must be evaluated prior to release.
- 4. Each bear will be ear tagged and tattooed as a minimum.
- 5. In most cases, only orphaned cubs and subadult female bears will be accepted from Glacier National Park.
- 6. Should a bear leave the relocation site, the Regional Supervisor of the Montana Department of Fish, Wildlife and Parks will be notified as soon as possible.
- 7. Bears otherwise meeting requirements 1-5 that have caused livestock depredation on the Lewis and Clark, Helena, or Lolo National Forests may be released to spring range in the South Fork of the Flathead.

During the period May 31 to September 8, bears will be relocated to areas outside the wilderness. Bears may be relocated within the wilderness from March 1 to May 31 and after Labor Day.

Site	Location Transp (T. R.)(Helicopt	ortation er vs Road	Specific Rest on each site Type of Bear <u>Unacceptable</u>	(if any) Season
1. Slide or Upper	. Slide or Upper Sullivan			
2. Twin Creek Drainage		Helicopter	. <b>.</b>	•
3. Sargeant Creek Drainage		Helicopter		
4. Corporal Creek	4. Corporal Creek Drainage			
5. Soldier Creek (Tin Basin)		Road		
6. Rock Creek Drainage		Road		
7. Connor Creek Drainage		Road		
8. Bunker Creek Dr	ainage	Road		
9. Upper Trail Cre	k (via Big Bill Rd.)	Road		<b>.</b> .
10. Upper South For	¥ °k	Helicopter		

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Within Wilderness

## Specific Restrictions

Site	Location Transportation (T. R.)(Helicopter vs Road)	on each site (if any) Type of Bear Season <u>Unacceptable Unacceptable</u>
Hungry Horse Distric		
1. Felix Peak	Helicopter	
2. Unawah Mountain	Helicopter	
3. Red Sky Mountair	* Helicopter	5/31-9/8
4. Spruce Pt.*	Helicopter	5/31-9/8
5. Hemitite Peak	Helicopter	5/31-9/8
6. Vinegar Mountair	* Helicopter	5/31-9/8
7. Mt. Bradley	Helicopter	5/31-9/8
8. Twin Peak	Helicopter	5/31-9/8
9. Red Plume Mounta	ain Helicopter	5/31-9/8
10. Slippery Bill Mc	Duntain Helicopter	5/31-9/8
11. Unawah Creek Dra	ainage Road	
12. Puzzle Creek	Road	
13. Trapper Bigelow	Road	
14. 25 Mile	Road	
15. Long Creek	Helicopter	

Within Wilderness

Advance approval of the Regional Forester has been received to relocate grizzly bears within wilderness. it is our intent that bears be relocated near elk winter habitat in the South Fork where carrion may provide a temporary food source. The exact location can best be determined at the time a bear is captured. Bears may be relocated within the wilderness from March 1 to May 31 and after Labor Day. Bears will be carefully screened to meet the established requirements.

There are many summer activities with potential for conflict planned near the proposed release sites. The time a bear is ready for release has bearing on potential conflict, so it is essential that the District Ranger be contacted prior to release when the best possible location will be mutually selected. The continued success in relocating grizzly bears is dependent on how well individual bears are evaluated. It is our judgment that bears from Glacier National Park are most often in problem situations because of their interaction with people. In most cases, we consider these bears a higher risk for relocation than bears from habitats outside the Park. For this reason, only orphaned cubs and subadult females that meet all the suitability requirements, and which are a "good risk", will be approved for relocation to the Flathead National Forest.

## Lewis and Clark National Forest

Forest criteria for accepting problem grizzly bears:

- 1. No grizzly bear which is feeding on dead livestock or is involved in livestock depredations immediately prior to capture will be relocated in any of the designated <u>spring use areas</u>.
- 2. No grizzly bear involved in cabin depredation will be relocated in any of the designated <u>spring use areas</u>.
- 3. Grizzly bear captured on the Rocky Mountain Front will normally be relocated west of the Continental Divide.
- 4. Designated sites will not be available for translocated bears if current use of the area by native grizzlies is known.
- 5. Grizzly bear will not normally be relocated after October 15 due to heavy dispersed human use associated with big game hunting seasons, a rapid decline in dependable food sources, and the limited amount of time available for an animal to adapt to a new environment prior to denning.
- 6. Male grizzly bears will be moved at least 70 miles and females and subadults at least 30 miles, whenever possible.
- 7. A maximum of three individual grizzly bears or female-cub groups will be accepted on the Forest during a seasonal use period in a given calendar year.
- 8. Male grizzly bears will be considered for relocation onto the Lewis and Clark National Forest under the following conditions:
  - a. The bear has no known history of aggressive behavior towards humans.
  - b. The bear has no known history of livestock depredation.
  - c. Approval for relocation of male bears will be determined on a case-by-case basis.

	ing Release Sites (til 1 - June 30)	Locati (T.		Tran (Helico	sportation opter vs Road)	Specific Restr on each site ( Type of Bear Unacceptable	ictions if any) Season <u>Unaccept</u> .
1.	Ninemile Park*	25N, 10W;	S. 33	& 34	Helicopter		5/31-9/8
2.	Ray Creek Trail*	24N, 10W,	S. 19	& 30	Helicopter	• .	5/31-9/8
3.	Dryden Creek*	24N, 10W,	s. 33	& 34	Helicopter		5/31-9/8
4.	Two Shacks Flat*	23N, 10W,	S. 27	& 28	Helicopter		
5.	Prairie Creek*	21N, 10W,	S. 6 8	§ 7	Helicopter		5/31-9/8
5.	West Fork Sun River	* 21N, 11W,	S. 22	2	Helicopter		5/31-9/8
•	Grassy Hills*	18N, 8W, S		· .	Helicopter		5/31-9/8
	Elk Creek	1911 011 -				,	5/31-9/8
ในส (ปัน	mer-Fall Release Sir		tion		Helicopter/Roa Transportation	Specific Por	5/31-9/8
ium (Ju			tion			Specific Res 1) on each site Type of Bear	trictions (if any) Season
	mer-Fall Release Sir	es Loca	tion F	<u>(He</u>	Transportation Licopter vs Road	Specific Res 1) on each site	trictions (if any) Season Unaccep
	mer-Fall Release Sir 17 1 - October 15)	es Loca (T.	tion F	<u>3.) (Не</u> 6 8	Transportation licopter vs Road Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8
	mer-Fall Release Sit 17 1 - October 15) Goat Ridge*	es Loca (T. 23N, 11W,	tion F S. 5 & S. 16	<u>R.) (He</u> 6 8 6 21	Transportation licopter vs Road Helicopter Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8 5/31-9/8
<u>.u u</u>	mer-Fall Release Sir <u>17 1 - October 15)</u> Goat Ridge* Grizzly Gulch*	es Loca (T. 23N, 11W, 22N, 11W,	tion S. 5 & S. 16 S. 27	<u>3.) (Не</u> 6 8 & 21 & 34	Transportation licopter vs Road Helicopter Helicopter Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8 5/31-9/8 5/31-9/8
	mer-Fall Release Sit <u>17 1 - October 15)</u> Goat Ridge* Grizzly Gulch* Pine Creek*	es Loca (T. 23N, 11W, 22N, 11W, 22N, 12W, 21N, 12W,	tion S. 5 & S. 16 S. 27 S. 23	<u>3.) (Не</u> 6 8 & 21 & 34 & 26 -	Transportation <u>licopter vs Road</u> Helicopter Helicopter Helicopter Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8 5/31-9/8 5/31-9/8 5/31-9/8
	mer-Fall Release Sit <u>17 1 - October 15)</u> Goat Ridge* Grizzly Gulch* Pine Creek* Blind Fork* Flint Mountain*	es Loca (T. 23N, 11W, 22N, 11W, 22N, 12W, 21N, 12W, 18N, 10W,	tion S. 5 & S. 16 S. 27 S. 23 S. 8 &	<u>3.) (Не</u> 6 8 & 21 & 34 & 26 - 9	Transportation licopter vs Road Helicopter Helicopter Helicopter Helicopter Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8 5/31-9/8 5/31-9/8 5/31-9/8 5/31-9/8
	mer-Fall Release Sir <u>17 1 - October 15)</u> Goat Ridge* Grizzly Gulch* Pine Creek* Blind Fork*	es Loca (T. 23N, 11W, 22N, 11W, 22N, 12W, 21N, 12W, 18N, 10W,	tion S. 5 & S. 16 S. 27 S. 23 S. 8 & S. 8 &	<u>3.) (Не</u> 6 8 & 21 & 34 & 26 - 9	Transportation <u>licopter vs Road</u> Helicopter Helicopter Helicopter Helicopter	Specific Res 1) on each site Type of Bear	trictions (if any) Season Unaccep 5/31-9/8 5/31-9/8 5/31-9/8 5/31-9/8

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* Inside Wilderness -- No bears will be relocated to the Lewis & Clark N.F. during summer months because all release sites are in wilderness areas.

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The summer-fall relocation sites were selected to avoid the more heavily used trails and popular camping areas. An evaluation of current or expected public recreational use, Forest Service work crew schedules, etc., will be factors to consider in determining which site is best suited for a specific relocation effort.

Grizzly bear relocation sites were selected for two seasonal use periods determined by forage availability and accessibility of the area to grizzlies. Spring use areas are those usable by grizzly bears from the time they leave the den until late June when higher elevation habitats become available. Summer-fall use areas will generally be considered as those providing the necessary habitat requirements for grizzlies during the period July 1 to October 15.

#### Helena National Forest

Forest criteria for accepting nuisance grizzly bears:

- 1. Bears may not be located within wilderness between Memorial Day and Labor Day.
- 2. Male bears must be sub-adult or younger in view of Forest Service recent experience.
- 3. No stock killing bears (cattle or sheep) will be accepted due to sensitive nature of stock-depredation in past years.
- 4. All bears will be equipped with radio collars and monitored through the first denning season by MDFWP.
- 5. A maximum of one (1) bear per year will be accepted in the Scapegoat Wilderness.

Site

<u>te</u>	Location (T. R. S.)		Specific Restrictions on each site (if any)
		·	Type of Bear Season Unacceptable Unaccept.

- 1. Crow Peak* 17N, 9W, S.9,10,11 Helicopter See above 5/31-9/8 (Note: This site involves Lolo, Helena, and Lewis & Clark NF's)
- 2. Mineral 16N, 10W, S. 7 & 18 Helicopter See above 5/31-9/8 Hill* (Note: This site involves Lolo and Helena NF's)

With wilderness

#### Lolo National Forest

Forest criteria for accepting bears:

- 1. The Youngs Peak area is the Forest's first priority area. Second priority is Mt. Headley, and the third is Lake Elsina.
- 2. No condition B. or C. bears.
- 3. Male grizzlies may be accepted as provided below:

Sit	e - <u>(T.</u>	Location <u>R.)</u>	Transportation (Helicopter vs Road)	Specific Restrictions on each site (if any) Type of Bear Season <u>Unacceptable Unaccept.</u>
4.	Youngs Peak	17N, 13W	Helicopter/Road	M-old adult F-old adult None
2.	Mt. Headley	23N, 29W	Helicopter/Road	F-old adult F-old adult None w/young F-prime adult w/young M-prine adult M-old adult
3.	Lake Elsina	17N, 17W	Helicopter/Road	F-old adult F-old adult None w/young M-all categories

Footnote - Livestock killing bears are not desired since all sites are adjacent to livestock grazing areas.

# Idaho Panhandle National Forests

1. Sandpoint Ranger District

Site	Location	Transportation
Scotchman #2	T. 56 N., R. 3 E.	Helicopter
Savage Mountain	T. 29 N., R. 34 W.	Helicopter
Twin Peaks Area	T. 57 N., R. 3 E.	Road/helicopter

2. Priest Lake Ranger District

Site	Location	<u>Transportation</u>
Cabinet Pass	T. 39 N., R. 5 W.	Road
Little Snowy Top	T. 49 N., R. 5 W.	Helicopter

# 3. Bonners Ferry Ranger District

Site	Location	Transportation
Trapper Peak/ Phoebe Tip	T. 64 N., R. 4 W.	Road
Lions Head Ridge Northwest Peak Hunt Girl Creek	T. 65 N., R. 3 W. T. 37 N., R. 34 W. T. 60 N., R. 2 E.	Helicopter Road Road

Colville National Forest

<u>Site</u>

Location

Salmo Creek Pass Creek Pass Gypsy Peak Shedroof Mountain

Τ.	40	Ν.,	R.	40	E.
		N.,			
		Ν.,			
		Ν.,			

# Transportation

Vehicle/Helicopter Vehicle Helicopter Helicopter/Vehicle

# Kootenai National Forest

Contact Forest Supervisor's Office.

# Flathead/Blackfoot Indian Reservations

Contact BIA Superintendent and Tribal Chairman.

		Cat. No.
	TERAGENCY NUISANCE GRIZZLY	
Use to report all captures	s, attempted captures, and	incidents involving problem bears
URE RECORDER	999 - Barbarran Marina, ann an Arlan an Anna an Anna an Anna Anna Anna An	CAPTURE DATE
EAR NO.	AGE	SEX
APTURE SITE	والمحافظ	
WBITAT DESCRIPTION (1.e.,	, farm, outfitter camp)	
мЭнгүн ну тайт Тануро СУС-у туу на байлан на өрүүн аруу алаан тараат аруу на түүүүү байга.		
CAPTURE METHOD	C	APTURE PERSONNEL
PERSONS DETERMINING NUISA	NCE STATUS	
REPRODUCTIVE STATUS	F	PHYSICAL CONDITION
HISTORY OF BEAR		
ACTION TAKEN TO RESOLVE	INITIAL CONFLICT	
RELEASE RECORDER		RELEASE DATE
DISTANCE NOVED	EAR TAGS & COLOR	(L. EAR)(R. EAR)
RELEASE PERSONNEL		DRUG DOSAGES
RELEASE PERSONNEL		DRUG DOSAGES
ADIO FREQUENCY & TYPE		MOUNTED BY
ADIO FREQUENCY & TYPE	AND TYPE, i.e., WILDERNESS,	MOUNTED BY, PARK, ETC.)
RELEASE PERSONNEL ADIO FREQUENCY & TYPE RELEASE SITE (LOCATION .	AND TYPE, i.e., WILDERNESS,	MOUNTED BY, PARK, ETC.)
RELEASE PERSONNEL ADIO FREQUENCY & TYPE RELEASE SITE (LOCATION	AND TYPE, i.e., WILDERNESS,	MOUNTED BY, PARK, ETC.)
RELEASE PERSONNEL ADIO FREQUENCY & TYPE RELEASE SITE (LOCATION A  RELEASE SITE AGREED TO	AND TYPE, i.e., WILDERNESS, BY (Personne1/AGENCY)	MOUNTED BY, PARK, ETC.)

# Grizzly Bear Mortality Report Form

Bear Identification: Ear Tag Nos.	Tatoo	
Radiocollar frequency	Sex Age	
Date of Mortality include legal description or UTM's)	Location (be specific,	, 
Description of Cause	,	
کیت بیان مان کی کری کری کری کری کری کری کری کری کری		
Carcass disposition		-
Comments (bear history, etc.)		

Copies of this form should be sent to: Arnold Dood, Endangered Species Fiologist, Montana Dept of Fish, Wildl. & Parks, Box 5, Montana State University, Pozeman, MT 59717.

#### GLOSSARY

- Areas Where Grizzly Activity is Common: Areas where grizzly presence (evidenced by grizzly sightings, sign and kills) has been consistenly documented over the years.
- <u>Conserve</u> (conservation: definition from ESA, 1973): The term "conservation" means to use and the use of all methods and procedures which are necessary to bring any endangered species or threatened species to the point at which the measures provided pursuant to the Act are no longer necessary. Such methods and procedures include, but are not limited to, all activities associated with scientific resources management such as research, census, law enforcement, habitat acquisition and maintenancepropagation, live trapping and transplantation, and in the extraordinary case where population pressures within a given ecosystem cannot be otherwise relieved, may include regulated taking.
- <u>Grizzly-Human Conflict Situation</u>: A confrontation between man and/or his property and bear(s) in which the safety of man and/or bear(s) is jeopardized and/or property loss occurs.
- <u>Conditioned</u>: A condition of grizzlies who consistently and aggressively pursue and depend upon food materials (human food, garbage, prepared livestock and pet foods, carrion, livestock, game meat) associated with man or his activities. Such individuals usually have no fear of man and are docile in man's presence until incited.
- Management Situation: A condition or state of affairs with unique circumstances involving grizzly bears. Situations apply to and are represented as mapped land areas. A given situation will apply to land areas which may differ physically but share other characteristics (i.e., grizzly populations and habitat dependencies).

Natural, Free-Ranging Grizzly Bear Population: A nonhabituated grizzly

- population in which individuals use natural foods exclusively under free-roaming conditions. A more natural free-ranging grizzly population could result it:
  - (1) relocation would likely "wean" the problem grizzly from unnatural food use; or,
  - (2) removal of the problem grizzly, if totally habituated or dangerous to man, would likely rid the population of an unnatural (addicted) individual and perhaps open a space for a more natural individual.

#### Nuisance:

- Condition A. The bear causes significant depredation to lawfully present livestock or uses unnatural food materials (human and livestock foods, garbage, home gardens, livestock carrion, and game meat in possession of man) which have been reasonably secured from the bear resulting in conditioning of the bear or significant loss of property.
- Condition B The bear has displayed aggressive (not defensive) behavior toward humans which constitutes a demonstrable immediate or potential threat to human safety and/or a minor human injury resulted from a human/bear encounter.
- Condition C The bear has had an encounter with people resulting in a <u>substantial</u> human injury or loss of human life.
- <u>Species</u>: (from ESA, 1973) The term "species" includes any subspecies of fish or wildlife or plants and any other group of fish or wildlife of the same species or smaller taxa in common spatial arrangement that interbreed when mature.
- <u>Threatened</u>: (from ESA, 1973) The term "threatened species" means any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.

# METHOD FOR DETERMINING GRIZZLY BEAR HABITAT QUALITY AND ESTIMATING CONSEQUENCES OF IMPACTS ON GRIZZLY HABITAT QUALITY

By

STEPHEN P. MEALEY

### NOTE:

Although dated in some aspects, this methodology is still useful at the project level. It should be used in conjunction with updated Cumulative Effects

#### PREFACE

The Endangered Species Act of 1973 (P.L. 93-205) requires that all federal agencies take necessary actions to insure that critical habitat for endangered or threatened species is not (adversely) modified or destroyed (Sec. 7).

Federal agencies are obliged to analyze and review their activities and programs to determine how listed species will be affected (Fish and Wildlife Service, 1976). The method presented here is a response to this obligation.

The objective of the method is to provide an analytic process capable of (1) producing reliable determinations of the quality of proposed land use sites as grizzly habitat, and (2) providing reliable estimates of the effects (consequences) of proposed activities on determined grizzly habitat.

Effects of programs and activities (logging, fire management, road construction, mineral exploration, livestock grazing, recreation and grizzly habitat improvement) on grizzly bear habitat are assumed to be positive, negative, or neutral depending on many variables. This assessment method will facilitate the reliable estimation of consequences of each proposed land use on a site-by-site basis.

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## SURVEY PROCEDURES $\frac{1}{}$

#### Overview

Extensive and intensive survey areas are designated for proposed land use sites. Primary and secondary land use impact areas are designated within the survey areas. HQR and CAR are based upon data taken in sample plots located in each known grizzly habitat component (Tables 1 and 2) and each other forested habitat type (Pfister et al., 1974) and grassland/shrubland habitat type (Mueggler and Handl, 1974) present in each impact area. Searches for grizzly sign and activity are conducted in impact areas to supplement HQR data.

# Survey Areas, Impact Areas, Plot Selection and Sampling

Extensive survey areas are the largest designated in association with proposed land use sites. They include the use sites but extend far beyond them and may encompass one or more townships. They are delineated on 1:62,500 USGS maps. Extensive surveys provide general overviews of the status of grizzly bears and other resources. Off-site analyses of aerial photos, topographic and vegetation maps, land use records, unit plans and other pertinent sources provide general information about topography, vegetation types, climate, wildlife and resource use history.

Intensive survey areas occur within extensive areas, include the proposed land use sites, and may extend beyond them to encompass one or more sections but usually not townships. They are delineated on 1:23,674 USGS maps, aerial photos or orthophotoquads. Intensive surveys provide specific information about proposed land uses and grizzly habitat. The proposed locations of land uses and areas likely to be affected are mapped. Locations of the main grizzly habitat components, activity centers, and use sites near proposed use areas are also accurately mapped. Areas of overlap are highlighted. Appropriate off-site sources for this information are plans of proposed land uses, aerial photos, habitat type maps, unit plans,

Primary and secondary land-use impact areas are delineated within intensive survey areas on 1:23,674 USGS maps. Primary areas are those in which one or all of grizzly food, cover, space and behavior would be altered directly or indirectly by new uses of the area. Secondary areas are those in which alterations would be possible but much less likely than in primary areas. Sizes of impact areas will vary with terrain and type and duration of each proposed activity.

^{1/} A checklist of survey procedures and a data collection procedure summary are included in the Appendix.

Data for food and cover taken from each five plot sample are kept on master Form 1. Individu 1 master forms are maintained for every habitat component and each other habitat type occurring in each impact area. Evaluations of grizzly behavior and spatial use are also made three times a year and are based on considerations of each impact area taken as a whole rather than on sample plots. These evaluations are recorded on Form 2.

Spring samples are normally taken between mid-May and mid-June, depending on local phenology. Sampling occurs before early forbs (<u>Claytonia</u> spp., <u>Ranunculus</u> spp., <u>Anemone</u> spp., <u>Erythronium</u> spp., <u>Fritillaria</u> spp., <u>Dodecatheon</u> spp., etc.) are gone or inconspicuous. Summer plots are sampled when seeds of grasses and forbs are normally ripe and their leaf tips drying and fruits of deciduous shrubs are green. These conditions normally exist (except in very wet sites) in early August. Autumn sampling occurs normally in early October when grasses and forbs in all but wet sites have dry or drying leaves and stems and fruits of shrubs are dry. Seasonal sampling facilitates the determination of availability and use of food, cover and space.

A search for grizzly sign and activity is conducted in primary and secondary impact areas. Grizzly sightings, tracks, scats, diggings, hair and other sign are reported on Forms 4 and 5.

# Search for Grizzly Sign and Activity

Searches for grizzly sign and activity are conducted in spring, summer and autumn as part of the overall evaluation process. Searches are conducted from the ground in primary and secondary impact areas. Ground searches may be supplemented by aerial surveys if feasible.

Ground searches should be systematic. A recommended method involves the establishment of permanent walking routes. Routes are laid out in a grid configuration with a constant interval between routes. Intervals should be spaced to give representative coverage of impact areas. Care should be taken to include the more important habitat components (avalanche chutes, burns, wet meadows, etc.) in survey routes. Routes are walked at least once, but as many times as feasible, each season.

Grizzly sightings, tracks, diggings, hair, dens and other sign noted along routes are reported on Forms 4 and 5. Grizzly scats are also collected, analyzed, and the contents reported. Basic references are: Murie (1954), for species, track and scat identification; Tisch (1961) and Mealey (1977), for scat identification and analysis; Greer and Craig (1971), for track identification; Spence (1963), for hair identification and Craighead and Craighead (1972) and Knight et al. (1977) for dens. When animal material is present, FHQR equals the sum of the letter values for animal material food value and total occurrence, total coverage and food value of food plants where H = 3, M = 2, L = 1 and 0 = 0. Sums become letter values according to the following conversions: 0-4 = L, 5-8 = M and 9-12 =H. For example, assume animal material is H, total occurrence is L, total coverage is H and food value is 0; the sum is 7 so FHQR = M. When animal material is absent, FHQR equals the sum of the letter values for total occurrence, total coverage and food value of food plants where H = 3, M = 2, 3 = L, 4-6 = M and 7-9 = H.

When FHQR = H, food habitat quality is high; when FHQR = M, food habitat quality is medium; when FHQR = L, food habitat quality is low; and no food habitat quality exists when FHQR = 0.

# Consequence Analysis Estimation

Consequence analysis rating (CAR) involves estimation of the probable or necessary effects of proposed land use impacts on the quality of grizzly food on all five plots taken as a group or whole and the area represented by them. Consequences are estimated by (1) identifying all probable impacts of proposed land uses on each component's or type's FHQR including plant and animal foods and the soils which support them, and (2) estimating the probable effects of the impacts upon food and soils.

CAR are based upon estimates of (1) desirable species (see ecology section) and other grizzly food plant's and animal's probable responses to different proposed land uses, (2) the likelihood of soil disturbances, and (3) probable food availability to bears. (d) Plants and Animals - Food plant root systems would be exposed, removed or overturned. Animals and plants would become unavailable as food to bears through either direct use and/or removal by other consumers (livestock, wildlife and man) or other activities which would interfere with grizzly access to or use of food plants and animals.

<u>Neu.</u> = Neutral effect on food habitat quality (FHQR). Most bear food plants would likely be unaffected by the proposed activity. None of the above conditions (a-d under Neg.) would apply.

<u>Pos</u>. = Positive effect on food habitat quality (FHQR). Conditions favoring food plant and animals would be initiated or enhanced. Any or all of the following conditions could apply:

(a) Soil - Soil stability and healing would be enhanced without soil disturbance.

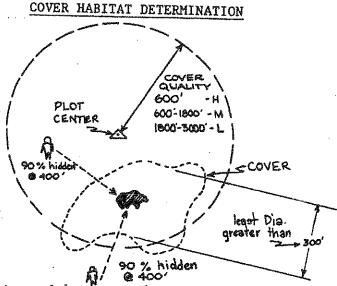
(b) Water - Water supply would be altered to benefit desirables.

(c) Sunlight - Sun exposure would be altered (slightly increased through partial overstory removal) without soil disturbance, benefiting desirables.

(d) Plant and Animals - Conditions for increasing, re-establishing and/or invigorating grizzly foods would be initiated or improved. Availability of food to bears would be increased by removing interference factors and/or other consumers.

POSITIVE, NEUTRAL AND NEGATIVE EFFECTS COULD ALL CONCEIVABLY RESULT FROM IMPACTS ON THE SAME PROPOSED LAND USE SITE. PROFESSIONAL JUDGMENT AND DISCRETION ARE NECESSARY IN ORDER TO RELIABLY ESTIMATE THE DOMINANT CONSEQUENCES AND CHOOSE A CAR WHICH REFLECTS THEM. GENERALLY A CONSERVATIVE APPROACH IS DESIRABLE. FOR EXAMPLE, ONE SEVERE NEGATIVE EFFECT MAY OFFSET TWO OR MORE POSITIVE EFFECTS. THE EFFECT OR GROUP OF EFFECTS WHICH WILL EXERT THE MAJOR INFLUENCE ON GRIZZLY USE OF THE SITE WILL RECEIVE THE GREATEST CONSIDERATION IN CAR.

The appropriate food habitat quality CAR value is placed in the blank opposite FHQR on Form 1. VERBAL RATIONALE FOR THE RATING, INCLUDING MAGNITUDE AND DURATION OF LIKELY EFFECTS IS GIVEN ON FORM 3.



Cover in relation to each plot of each sample group is evaluated using the following criteria:

CHQR = H; cover habitat quality is high when cover occurs within 600 feet of plot center.

CHQR = M; cover habitat quality is medium when cover occurs between 600 and 1,800 feet of plot center.

CHQR = L; cover habitat quality is low when cover occurs between 1,800 and 3,000 feet from plot center.

CHQR = 0; no cover habitat quality exists when cover is absent within 3,000 feet of plot center.

	COVER HABITAT QUALITY
HIGH	
MODERATE	
LOW	
	300 600 900 1200 1500 1800 2100 2400 2700 3000 COVER WITHIN DISTANCE OF PLOT CENTER

Rating categories are much the same as for food CAR because most cover vegetation, including herbs and shrubs, will respond negatively to severe mechanical soil disturbances. Conifer regeneration is favored by scarification, but overall site food quality is lowered. Categories are as follows:

<u>Neg.</u> = Negative effect on cover habitat quality (CHQR). Most trees, shrubs and tall herbs providing cover would decrease. Landscape would be altered to reduce cover quality. The following effects would apply.

(a) Topography - Relief would be altered or otherwise interfered with to reduce its qualities for escape and security.

(b) Soil - Soil would be exposed.

(c) Water - Water sources would be detrimentally altered.

(d) Plants - Cover plants, including root systems, would be removed, overturned or otherwise disturbed and/or cover plants would become unavailable to bears through activities which would interfere with grizzly access to them.

<u>Neu</u>. = Neutral effect on cover habitat quality (CHQR). Cover would be unaffected by the proposed activity. None of the above conditions (a-d under Neg.) would apply.

<u>Pos.</u> = Positive effect on cover habitat quality (CHQR). Conditions favoring cover plants and relief would be initiated or improved. One or all of relief, soil, water, sunlight and plant influences on cover would be improved.

The appropriate cover habitat quality CAR value is placed in the blank opposite CHQR on Form 1. If dens or den sites are present or suspected, likely effects of impacts are indicated in the space provided below CHQR opposite denning area on Form 1. Consequence stratification rationale should be included on Form 3 as appropriate.

Space

# Habitat Quality Determination

Spatial Habitat quality is determined by identifying each impact area's value as part of the total space used by an individual or population of grizzlies. Quality is expressed by seasonal space habitat quality rating (SHQR).

SHQR is a value which expresses the quality of an impact area as part of a total grizzly use system. Quality is evaluated using the following criteria:

SHQR = M; space habitat quality is medium when the impact area is at the "outer edges" of a high quality area. The area may serve as a buffer between high and lower quality areas(Erickson, 1976, 1975) and may contain one or more important habitat types or components, but none that are of critical seasonal importance such as early green-up areas. The area may be used occasionally by an individual grizzly or a population of grizzlies from a high quality

SHQR = L; space habitat quality is low when the impact area is at the extreme outer fringe of a medium quality area. The area may be considered marginal in the sense that individual grizzlies may be highly vulnerable to established and legitimate uses. The area may contain one or more habitat components but none of critical seasonal importance. The area

SHQR = 0; no space habitat quality exists when impact areas are not associated with an established grizzly use system and no grizzly habitat components occur.

SHQR = HX; characteristics of H are present but grizzlies do not occur in the area (potential range).

SHQR = MX; characteristics of M are present but grizzlies do not occur in the area (potential range).

SHQR = LX; characteristics of L are present but grizzlies do not occur in the area (potential range).

After the appropriate SHQR is chosen, the value is entered in the blank under SHQR on Form 2.

# Consequence Analysis Estimation

CAR requires the estimation of the probable or necessary effects of proposed land use impacts on SHQR or the impact areas and the use systems of which they are a part. This requires (1) identification of all probable activities and their probable impacts, and (2) estimation of effects of impacts upon spatial quality and the components which make it up.

Cab-Yaak GB Administrative Record 2014

<u>Pos.</u> = Positive effect on space habitat quality (SHQR). Any positive effects recorded for FHQR and/or CHQR probably constitute positive effects. Any other general benefits or enhancements of conditions for grizzlies resulting from the use (such as removal of pre-existing negative factors through, for example, road closures and removal of garbage facilities or other human developments) would apply here.

The appropriate space habitat quality CAR value is placed in the blank SHQR on Form 2. A verbal stratification of consequences is entered on Form 3.

#### Behavior

# Behavior Quality Determination

Behavior quality determination involves identification or estimation of the general predisposition of grizzlies in each impact area to man and to natural foods. Behavior quality is expressed by a seasonal behavior habitat quality rating (BHQR).

BHQR is a value which expresses(1) the extent to which grizzly behavior in impact areas is pristine or modified with respect to food use and man, and (2) likely human-grizzly conflict potential in impact areas assuming accepted measures of food storage and garbage disposal are used. BHQR are made using the following criteria:

BHQR = H; behavior quality is high when behavior in impact areas is essentially pristine. No grizzlies are habituated to man and all flee in most encounter situations. Conflict potential is low. Natural foods are used exclusively by all individuals under free-ranging conditions.

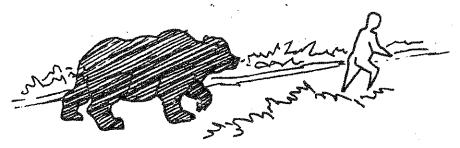
#### HIGH BEHAVIOR QUALITY

BEAR IS NOT HABITUATED TO MAN: NATURAL FOODS ARE USED: MOST BEARS FLEE MAN ON ENCOUNTERS; CONFLICT POTENTIAL IS LOW.

BHQR = 0; no behavior quality exists when behavior of two or more is modified to the extent that individuals are totally habituated to man and they have no fear of man. Conflict potential is extremely high. Unnatural foods are depended upon and such foods are agressively pursued and taken wherever they occur.

#### AGGRESSIVE BEHAVIOR QUALITY

TOTALLY HABITUATED TO, AND HAVE NO FEAR OF, MAN; DEPENDENT ON AND AGGRESSIVELY PURSUE UNNATURAL FOODS; CONFLICT POTENTIAL IS EXTREMELY HIGH.



The appropriate BHQR value is entered in the blank under BHQR on Form 2.

### Consequences Analysis Estimation

CAR requires estimation of the probable or necessary effects of proposed land use impacts on BHQR or the dominant behavior patterns apparently characteristic of the population or individuals in each impact area. Ratings reflect the extent to which land uses would likely affect existing behavior patterns.

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No		Impact Area:	)	Proposed Use:	
• •	.*	Space SHQR CAR*		Behavior BHOR CAR*	
Spring	• -		-		
Summer	-		•		
Autumn	-		-		

# FORM 2. GRIZZLY BEAR MABITAT QUALITY AND CONSEQUENCE ANALYSIS EVALUATION MASTER, SPACE AND BEHAVIOR.

Comments:

* Give verbal rationale for each EAR on Form 3.

# FORM 3. VERBAL STRATIFICATION OF CONSEQUENCES

Objective: Provide a verbal rationale for each CAR. Explain the magnitude of each probable effect. For example, the following questions should be answered: Will the effect likely be short-term or long-term? Do alternative components exist? Will the effect be reversible with or without mitigation? What are feasible mitigation measures; and will a significant area be affected? Explanations must be given of the extent to which an effect will be positive, negative or neutral.

1. Food CAR Stratification:

# 2. Cover CAR Stratification:

- 3. Space CAR Stratification:
- 4. Behavior CAR Stratification:

Other comments, Continued:

FORM	MARC STGHTING AND/OR INFINE	TETCATION NUMBER
I.	Sighted by	
II.	Sighting data	Address
III.	Sighting location	
17.	Description of bear(s):	
	A: Species: reported verified by-	<b>.</b>
	Grizzly	
	Black	7) []
	Unknown	INNS JNG
	B. Number of bears seen by size and coa (also describe any identified	t color:
	(also describe any identifying earts Predominant coat color:	gs or markers)
•		Weight in pounds-
	$\frac{1 - black}{2 - reddish-brown}$	0-100 100-200 200-400 Over 400
	<u>3 - prav</u> <u>4 - dark brown (chucolate)</u>	
	2 = 12535 brown (top)	
•	6 - blonde (white-vellow) 7 -	
	C. Diagram coat color pattern of female, 1 to 7 above.	
•	I to 7 above. Female	young groups only, using colors
	Tenarie	Yourg
	en la	Jan Em
	D. Activities of bear(s): Preying on	Scavenging on
	Digging Grazing Other	
v. p	eport filled out by	
	at (location) on (dat	e/time)
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<u>Yea</u>	<u>s-of-year</u> are usually less than $1/4$ of female siz <u>clines</u> , $1/4-1/2$ of formule size, or 50-100 lbs.	e, or 10-50 lbs;
	<u>232-0123</u> , 1/2-3/4 of female size, or 50-100 lbs. <u>11 adult</u> bears are 100-200 lbs; <u>radium adults</u> , 20	

;

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*

<u>Neu.</u> = Neutral effect on behavior habitat quality. Behavior would be unaffected by the proposed activity.

<u>Pos.</u> = Positive effect on behavior habitat quality. Behavior of at least one grizzly would become modified to make it less habituated to man while no individuals would be made more habituated. This could occur through:

(1) Enhancement of natural food use patterns and enhancement of habitat components providing food and cover;

(2) Permanent removal of unnatural food sources;

(3) Amelioration of conditions contributing to high grizzly-human conflict potential.

The appropriate behavior quality CAR value is placed in the blank under BHQR on Form 2. A verbal stratification of consequences is entered on Form 3.

#### SURVEY CHECKLIST

I. Before Data Collection:

---Off-site procedures---(Office)

Delineate Extensive Survey Area on 1:62,500 USGS Map.
 a) Get a general overview.

2. Delineate Intensive Survey Area on 1:23,674 USGS Map.

a) Get specific information on proposed land use and grizzly use.

3. Delineate Primary and Secondary Impact Areas of 1:23,674 USGS Map.

a) Obtain and accurately map locations of all habitat components and other habitat types and all prominent geophysical features.

4. Establish General Sampling Strategy.

a) Determine plot numbers and locations.

b) Establish sampling schedule.

---On-site procedures---(Field)

5. Refine 1-4 above as necessary to reflect actual situations on the ground.

II. Data Collection:

1. Evaluate food and cover using sample plots. Five plots are sampled in each habitat component or other habitat type present in each impact area. Use appropriate conversion and value systems in footnotes on Form 1. Photograph plots each sample period (spring, summer, autumn) to document phenological changes.

2. Evaluate behavior and spatial use, using impact areas as points of reference.

3. For food and cover, estimate consequences of effects on sample groups as a whole or components or types represented by them rather than on individual plots. For behavior and spatial use, estimate effects on impact areas.

4. Stratify consequences verbally.

III. Data Analysis:

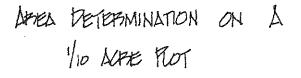
1. Analyze data from perspective of trends rather than totals.

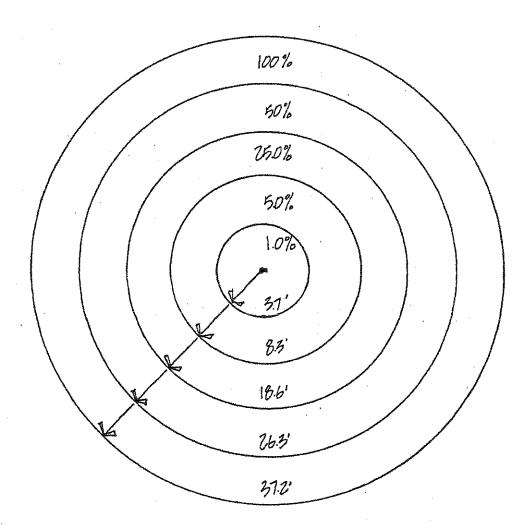
**Extensive Survey** Area Intensive Survey information from Represented by estimates from Represented by impact areas. impact areas. Area Secondary Impact Area DATA COLLECTION PROCEDURE SUMMARY (Continued) based on impact area Primary Impact One estimate each summer and autumn as a whole rather summer and autumn Use season: spring, season: spring, area as a whole. Use Forms 4 & 5. One search each based on impact Area Forms 2 & 3. than plots. Activity and Behavior Sign Space k

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If a habitat component or other habitat type is continuous throughout both impact areas, it is sampled with only one five plot group distributed through both impact areas.

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United States Department of the Interior FISH AND WILDLIFE SERVICE

5 1979

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MAILING ADDRESS: Post Office Box 25488 Denver Federal Center Denver, Colorado 80225

STREET LOCATION: 134 Union Blud. Lakewood, Colorado B0228

FA/SE/FS--Guidelines for Grizzly Mgmt. in Greater Yellowstone (6-1-79-F-100)

> Mr. Craig W. Rupp Regional Forester Rocky Mountain Region P.O. Box 25127 Lakewood, Colorado 80225

Dear Mr. Rupp:

This is our biological opinion prepared in response to your May-24, 1979, request for formal consultation on the <u>Guidelines for Management</u> <u>Involving Grizzly Bears in the Greater Yellowstone Area</u>. We have examined the document in accordance with the Section 7 "Interagency Cooperation Regulations" (50 CFR 402, 43 FR 870) and the Endangered Species Act Amendments of 1978.

#### BIOLOGICAL OPINION

It is our biological opinion that implementation of the <u>Guidelines</u> for <u>Management Involving Grizzly Bears in the Greater Yellowstone Area</u> will promote the conservation of the grizzly bear.

# BASIS OF OPINION

The Guidelines offer sound recommendations for developing programs to aid in the conservation of the bear and for eliminating or minimizing human/grizzly conflicts causing adverse impacts to the bear or its habitat. Coordination of programs and activities, through the use of the guidelines, should aid the Forest Service and National Park Service in meeting their responsibilities to conserve this species. The degree to which the grizzly bear will benefit depends upon how extensively and how judiciously the Guidelines are applied.

It is important for the recovery of the grizzly bear that: (1) grizzly habitat be identified and managed as one continuous unit where possible; (2) management priorities be established; and (3) the continuity of management be maintained. Adoption and use of the Guidelines will promote such management. These multi-agency guidelines identify management direction to be taken in behalf of the bears which cross through the

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jurisdiction of several State and Federal agencies. It is an effective method of identifying possible interagency management conflicts so action can be taken to resolve the conflicts and provide compatible management across agency boundaries.

Except for a few areas, we believe that the management situations delineated by the Shoshone, Bridger-Teton, and Targhee National Forests, and Grand Teton National Park reflect an accurate appraisal of grizzly use and desirable management. The steps the Forest and Park Services have taken to resolve difficult issues and make a commitment to grizzly management are commendable. The full array of management situation designations will be an important tool in making management decisions. These designations identify good grizzly habitat so that limited resources can be used to direct efforts where the most benefit will result.

There are, however, things that the Guidelines and this biological opinion will not do. The management situations identify areas necessary for species survival and recovery and consequently imply critical habitat. Our biological opinion cannot ratify this implied designation of critical habitat. These management situations should be considered as interim management zones until official designation of critical habitat has been published.

It is desirable to take an umbrella approach with consultations covering management recommendations. However, in such a consultation it is impossible to: (1) identify specific impacts of projects that have not been proposed; (2) relate project impacts to the biological components and the manner in which grizzlies use an affected area; and (3) predict the degree of compliance with the Guidelines. It is impossible to render a biological opinion on all programs and activities identified in the Guidelines in each of the five management situations. Consultation on Forest Management Plans, Park Master Plans, Park Resource Management Plans, or projects developed through use of these guidelines will be more appropriate than consultation on the guidelines.

Implied in the Guidelines is the assumption that all agencies adopting the Guidelines will fully implement them. This is necessary to achieve the continuity of management. Without standard application, management will remain fragmented and, therefore, less effective.

The Gallatin National Forest and Yellowstone National Park have not identified the full array of management situations upon which the Guidelines are based. The failure to delineate management situations on the Gallatin National Forest fragments this attempt to develop the Guidelines and makes implementation of the Guidelines and conservation of the species less effective. Grizzlies are known to occur outside the areas delineated as Management Situation 1 on the Gallatin National Forest and good grizzly habitat exists outside this zone, so these areas require delineation. Known conflict sources, such as livestock allotments that may be preventing grizzlies from reaching carrying capacities in areas that qualify as Management Situation I, need to be resolved. We recommend that the Gallatin National Forest make the commitment other Forests have made by delineating all five of the management situations that may occur in their area of jurisdiction.

The same situation exists in Yellowstone National Park. There may be valid administrative reasons for Yellowstone not delineating management situations. However, the structure of the Guidelines implies that Yellowstone accepts the concept of management situations and their recommended management. If Yellowstone National Park is to be signatory to the Guidelines, the Park should either delineate management situations or specify that management is directed by the Yellowstone Operating Procedure Bear Management Policy attached as an Appendix to the Guidelines.

#### RECOMMENDATIONS

We concur with almost all of the management directions, but have the following recommendations.

Program/Activity Review: The Guidelines indicate that U.S. 1. Forest Service procedures (1977) will be used in most instances to evaluate the effects of activities and programs upon grizzlies and their habitat. We agree that the procedure is an excellent method of determining habitat quality and estimating consequences of specific project impacts. However, the method does not require a consideration of the cumulative effects of past, ongoing, and foreseeable actions which may certainly change the "consequence analysis" ratings. We recommend that the U.S. Forest Service procedures (1977) incorporate the consideration of cumulative effects on the grizzly and its habitat.

2. Timber Management: Post-sale area improvements are outlined in which reforestation is cited as a method to establish cover patches in cut blocks and supplemental cover screens for wet meadows, marshes, bogs, ponds, and other riparian areas. We are not opposed to habitat improvement but suggest that these measures are unnecessary if adequate "leave strips of uncut timber" are properly programmed into the sale design and contract.

The Guidelines recognize road closures as an important management tool but they are vague concerning when roads will be closed to the public. Road closures after termination of timber sales will not adequately protect the grizzly in all cases. We recommend that road closures during the logging contract period, as well as after termination of the sale contract, be considered.

Range Management: The conflict between sheep and grizzlies is 3. well documented by the Interagency Grizzly Bear Study Team, Border, Grizzly Project, and our own Animal Damage Control program. The recent

illegal killing of grizzly #14 on Boone Creek and other suspected poaching demonstrates the incompatibility between grizzlies and sheep allotments in Management Situation 1. The recovery of grizzly in areas where this type of conflict occurs will continue to be suppressed.

The Guidelines describe various management alternatives to eliminate or lessen this conflict, including removal of bear attractants, changing the season of use, bedding practices, grazing areas, or changing from sheep to cattle if the range is suitable for cattle. These measures are designed to reduce or eliminate the conflict between bears and sheep. They do not, however, address the conflict that occurs between man and bear. Indiscriminant and illegal killing of grizzly bears to prevent sheep depredation still occurs. If operators on sheep allotments in Situation 1 areas are not willing to operate within the framework of the Guidelines, we recommend the sheep be removed.

This completes the formal consultation process on the <u>Guidelines for</u> <u>Management Involving Grizzly Bears in the Greater Yellowstone Area</u>. We appreciate the cooperation, including the extension of time, your staff has given us in meeting our joint responsibility under the Endangered Species Act.

Sincerely yours

JAMES C. GRITNAN Acting Regional Director

# REFERENCE CITED

U.S. Forest Service. 1977. Method for determining grizzly bear habitat quality and estimating consequences of impacts on grizzly habitat quality. Prepared by Stephen P. Mealey. Northern Region Contract No. 11-1200. Missoula, Montana. Multilith. 47 pp.

# UNITED STATES DEPARTMENT OF AGRICULTURE, UNITED STATES DEPARTMENT OF THE INTERIOR AND STATES OF IDAHO, MONTANA, WYOMING, AND WASHINGTON MEMORANDUM OF AGREEMENT TO REVISE AND EXPAND THE INTERAGENCY GRIZZLY BEAR COMMITTEE

#### A. Need:

The grizzly bear is listed as a threatened species in the 48 conterminous States under provisions of the Endangered Species Act of 1973, as amended. To achieve the recovery of the grizzly bear, it is necessary that all Federal and State agencies with responsibilities for this species coordinate their management and research actions to the greatest extent possible to insure the best utilization of available resources and prevent duplication of effort.

To attain the objectives established by the Grizzly Bear Recovery Plan, the United States Department of Agriculture (U.S. Forest Service), the United States Department of the Interior (Fish and Wildlife Service, National Park Service, Bureau of Land Management, Bureau of Indian Affairs), and the States of Idaho, Montana, Wyoming, and Washington find it in the best interest of the grizzly bear to revise and expand the Interagency Grizzly Bear Committee (IGBC) established in April 1983).

#### B. Organization:

Members

3	Regional Foresters, USDA Forest Service
T	Regional Director, National Park Service
1	Regional Director, U.S. Fish and Wildlife Service
1	State Director, Montana, Bureau of Land Management
1	State of Idaho Representative )
1	State of Monterry David Line 1
1	State of University D
1	State of Washington Representative ) Appropriate Governor

#### Advisor

Grizzly Bear Recovery Coordinator, U.S. Fish and Wildlife Service

#### Invitees

In addition to the members specified above, the following parties involved with the grizzly bear management and research in the State of Washington may participate in the committee and attend committee meetings: Regional Forester, National Park Service Regional Director, and the Fish and Wildlife Service Regional Director. The Bureau of Indian Affairs Area Directors from Portland, Oregon and Billings, Montana and representatives from the Canadian Provinces of British Columbia and Alberta also are invitees to committee and subcommittee

#### Subcommittees

Yellowstone Ecosystem National Park Superintendent (2) National Forest Supervisor (5) State Representatives from Wyoming, Montana and Idaho U.S. Fish and Wildlife Service Representatives (2) Northern Continental Divide Ecosystem National Park Superintendent (1) National Forest Supervisor (5) State Representative from Montana U.S. Fish and Wildlife Service Representative (1) Bureau of Indian Affairs and/or Tribal Representative from each Indian Reservation (2) Bureau of Land Management Representative, Montana (1) Canadian Representatives Northwest Ecosystems National Park Superintendent (1) National Forest Supervisors (5-7) State Representatives from Montana, Idaho, and Washington U.S. Fish and Wildlife Service Representatives (2)

Canadian Representative

Research

U.S. Fish and Wildlife Service Representative U.S. Forest Service Representative National Park Service Representative States of Idaho, Montana, Washington, and Wyoming Representatives Bureau of Indian Affairs and/or Tribal Representative(s) Bureau of Land Management Representative Canadian Representatives (Existing Interagency Grizzly Bear Study Team to continue under Research Subcommittee.)

# C. IGBC Operation:

- 1. Chairmanship of the IGBC shall rotate among representatives with the chairman serving a 2-year term, beginning with the representative of the U.S. Fish and Wildlife Service. Chairmen of the Research Subcommittee and Yellowstone, Northern Continental Divide and Northwest Ecosystems Subcommittees will be elected by Subcommittee members for 2-year terms.
- 2. Meet a minimum of twice per year, with additional meetings as needed and agreed to by majority of Committee.

- D. IGBC Committee Responsibilities:
  - 1. Implement the Grizzly Bear Recovery Plan, and all management and research activities necessary to provide for recovery of the grizzly bear.
  - 2. Make provision for implementation of approved actions.
  - 3. Guide and plan research direction.
  - 4. Evaluate implementing activities to determine the effectiveness of achieving recovery plan objectives.
  - 5. Take appropriate action under existing authority where necessary and make joint recommendations to Federal agency heads and States.
  - 6. Review and approve or disapprove actions proposed by Subcommittees.
- E. <u>Northern Continental Divide Ecosystem, Yellowstone Ecosystem, and</u> <u>Northwest Ecosystems Subcommittee Responsibilities:</u>
  - 1. Implement management actions in a coordinated fashion.
  - 2. Propose management policy to the IGBC.
  - Establish necessary task forces to implement approved actions when necessary (i.e., law enforcement, information and education, improvements).
  - 4. Identify research needs and financial needs for management and submit to the IGBC.
  - 5. Report to IGBC on progress concerning management actions necessary for grizzly bear recovery.
- F. <u>Research Subcommittee Responsibilities:</u>
  - 1. Identify and propose needed research programs to the IGBC as directed by the Grizzly Bear Recovery Plan.
  - 2. Coordinate and direct needed research activities approved by IGBC.
  - Review and develop research plans to assure that they adequately address research needs and that the objectives, methods, analyses, timetables, and budgets are valid and realistic.
  - 4. Establish ad hoc task forces to examine and report on special topics as approved by IGBC.
  - Review research findings and reports for scientific validity and make recommendations to IGBC on their adequacy or relevance for assisting management decisions. Circulate these reports for peer review when necessary.

) حرور Jamany 1984 Crowell, Jr. U\S., Department of Agriculture Date-Assistant Secretary for Natural Resources and Environment G. Ray Arnett 5 Dec 83 U.S. Department of the Interior Date Assistant secretary for Pish and Wildlife and Parks 12/311 8 Garrey E. Carruthers Department of the Interior Date Æ. Assistant Secretary - Land and Water Resources Kenneth L. Smith U.S. Department of the Interior Assistant Secretary for Indian Affairs 🖉 ohn V. Evans 2-6-84 tate n Date Ted Schwinden State of Montana )ate State of Washington Date State of Wyoming