MOTORIZED BIG GAME RETRIEVAL AND ELK MANAGEMENT

Arizona Game and Fish Department White Paper

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I. Introduction

The Arizona Game and Fish Department (Department) works cooperatively with the Us Forest Service (USFS) in the management of wildlife species and habitat on Forest Service land. The USFS is currently in various stages of developing road management plans throughout all Forests within Arizona in accordance with the final rule, 36 CFR Part 212 Travel Management; Designated Routes and Areas for Motor Vehicle Use. This final rule allows the responsible official to "include in the designation the limited use of motor vehicles within a specified distance of certain forest roads or trails where motor vehicle use is allowed, and if appropriate within specified time periods, solely for the purposes of dispersed camping or retrieval of a downed big game animal by an individual who has legally taken that animal." The following information is intended to assist the Forest in making informed decisions regarding the use of motorized big game retrieval (MBGR). The information contained in this white paper focuses on antlerless elk management due to the following reasons: 1) Antlerless elk retrieval encompasses the majority of hunter need and potential habitat impacts from MBGR and 2) Achieving management objectives for antlerless elk are the most likely to be hampered by restrictions on MBGR.

Recommended Action

Historically, MBGR has been allowed on the Forests as a tool for hunters to achieve harvest success. Cross-country travel has also been allowed for other users with specific purposes (e.g. wood cutting/ gathering, fence maintenance, etc.). While the Department supports the change to prohibit most cross-country travel to facilitate natural resource protection, we encourage the Forest Service to continue to allow off-road access consistently among users for specific purposes, especially those activities that do not result in unreasonable resource damage, to provide the appropriate access for the maintenance and management of habitat and wildlife populations. The Department also advocates for a consistent, statewide approach to implementing the MBGR guidance. This is of particular concern across forests with shared boundaries, and often shared game management units, including the Coconino, Apache-Sitgreaves, Kaibab, Prescott, and Tonto National Forests.

The Department recommends the National Forests of Arizona universally adopt the following rule for MBGR:

Big game retrieval is allowed for legally taken and tagged elk, mule deer, bear, and bison during an open season as designated for those species by the Arizona Game and Fish Commission and for twenty-four hours following the end of each season provided it can be done without unreasonable resource damage. CHAMP hunters, (those hunters who are physically challenged and have a Challenge Hunter Access/Mobility Permit) are allowed to recover all legally taken big game during their season and for 24 hours following the close of their season provided it can be done without unreasonable resource damage.

II. Elk Harvest and Habitat Management

The Department's elk harvest and habitat management goals and objectives are deployed and implemented through detailed planning and public processes. Coordination with the USFS ensures land management objectives set by the USFS, including habitat and resource protection, are taken into consideration in the management of elk. USFS concerns are generally first addressed between the USFS District and the Department's local Wildlife Manager and then addressed in a meeting between the Forest and the Region. USFS concerns regarding impacts from game populations can then be carried forward as supporting documentation for hunt recommendations.

The purpose of the Department's Game subprogram is to protect, restore, and manage game populations and their habitats, to maintain the natural wildlife diversity of Arizona, and to provide wildlife-oriented recreation opportunities for present and future generations. Elk management objectives include:

- Manage post-hunt populations statewide to be consistent with the Elk Management Plan.
- Address local issues in the Elk Management Plan that may influence localized populations, despite current statewide population levels.
- Maintain annual harvest at 9,000 or greater.
- Provide recreational opportunity for 20,000 or more hunters per year.
- Provide 100,000 hunter days or greater each year.
- Develop cooperative action plans, including monitoring, with property owners, lessees, and land management agencies to reduce elk-livestock conflicts.

The Department utilizes hunting as a management tool to protect natural resources including wildlife habitat. In response to requests from the USFS and our own data, the Department has designed hunts to reduce elk populations on the Coconino and Kaibab National forests for the last 17 years and worked to maintain populations at necessary levels to address habitat concerns such as the protection of meadows and aspen groves. Each year the Department uses aerial hunt patrols to detect violations such as hunting from a vehicle or vehicles traveling cross country in vehicle closure areas. During these patrols, the Department often observes elk concentrated in areas between roads. The primary tool for regulating populations is antlerless harvest, and while many hunters will work hard for a trophy bull, antlerless hunters are more likely to be deterred (and ultimately unsuccessful in harvesting) by access issues such as wet weather, wet roads, and other access restrictions. In response, the Department has 1) added permits; 2) increased the number of hunts; and 3) split game management units to concentrate hunters.

Harvest objectives have been difficult to achieve in some areas. Adding MBGR restrictions will likely decrease antlerless harvest in these areas, making it more difficult to achieve harvest objectives. The Department is concerned restrictions on MBGR will discourage hunting in areas not readily accessible by roads. Hunters may avoid these areas for fear of not being able (either physically or logistically) to retrieve downed game in a timely manner.

III. Regional Elk Harvest Objectives

Region I:

All Region 1 elk game management units (units) listed in the table below have consistently provided both bull and antlerless elk hunts to achieve elk population management objectives. After intensifying harvest in the antlerless segment of the population over the past several years to reduce elk populations on the Apache-Sitgreaves National Forest (A-S), many of these antlerless hunts are now designed to stabilize elk populations. Elk populations in many units are currently estimated to be at roughly half of what they were prior to 2000, and the Region continues to maintain harvest pressure on the antlerless segment of the elk population to moderate or stabilize elk population growth. This generalized management approach is not expected to alter substantially in the future, and higher levels of hunter success are important to meet population objectives.

Most Region I "any elk" hunts occur in non-traditional elk habitat designated in the Elk Management Plan as a "Limited Population Management Zone". In these areas, the goal is to have as few elk as practical. Most of these areas do not include USFS land and are primarily designed to address private land conflicts. One exception is in Unit 27 within the 27 South and Martinez hunt areas. These areas encompass USFS lands and keep elk populations at low levels in non-traditional elk habitat. There are landscape-scale habitat projects underway in Unit 27 that were funded and supported by The Department, USFS, Arizona State Land Department, and private landowners. These projects are also intended to benefit other species such as mule deer, white-tailed deer, antelope, and nongame species. The Region has relied upon "any elk" hunt structures to keep elk populations at low levels to meet "Limited Population Management Zone" objectives, and to promote desired population responses of other species.

The following table summarizes current elk population management objectives for units within Region I. Units 2A/2B/2C are designated in the Elk Management Plan as "Limited Population Management Zones" with substantial portions of those units lying outside USFS land.

Unit	Management Objective
1	Stabilize
3B	Stabilize
3C	Stabilize
4A	Stabilize
4B	Stabilize
27	Stabilize or slightly increase

Region II:

Unit 5A, 5B, and 6A elk herd unit:

1. Region II has met population objectives in Units 5A, 5BN, and 6A. We now intend to stabilize and/or slightly increase the overall herd in response to favorable habitat

conditions, while favorable conditions prevail.

2. We have achieved substantial reductions of the elk herd which used the state and private lands year around through subunit hunts which indirectly benefits the forest lands. We will continue to use specific sub-units with Limited Opportunity Hunts (hunts where the probability of success is low) and coordinate with land owners to address concerns of elk residing year-round on winter range on private and state lands in Units 5A and 5BN. The appropriate level of antlerless elk harvest has been achieved on the Melatone Mesa portion of Unit 5BS, resulting in the elimination of the Unit 5BS sub-units (Melatone Mesa and Hutch Mountain).

3. Stabilize and/or slightly increase the herd in Unit 6A if favorable habitat conditions

prevail.

Unit 6B, 8, and Camp Navajo elk herd unit:

1. Stabilize or slightly reduce that portion of the herd in Unit 6B to compensate for recruitment from the Camp Navajo sub-herd and to respond to population trend indicators showing an increase in this herd. Keep bull:cow ratio within established hunt guidelines.

2. Continue to work with Camp Navajo to focus the harvest on the female segment of

the population.

3. Continue telemetry of Camp Navajo elk to tailor hunt structure to the temporal and

spatial dynamics of the sub-herd.

4. Stabilize and/or slightly increase portion of the herd in Unit 8 and annually adjust harvest in response to monitored forage capacity in coordination with the Kaibab National Forest.

Unit 7 elk herd unit:

1. Stabilize the portion of the herd residing in Unit 7E as population objectives have been met. The Coconino and Kaibab National Forests continue to have concerns

about the lack of aspen regeneration in Unit 7E.

2. Continue to stabilize and/or slightly reduce the portion of the herd residing in Unit 7W in response to population trend indicators showing an increase in this herd and concerns about lack of aspen regeneration from the Coconino and Kaibab National Forests.

Unit 9 Elk herd unit:

Stabilize and/or slightly reduce this herd in response to habitat concerns:

2. Manage the bull segment of the population to maintain a survey ratio of up to 40 bulls per 100 cows.

Units 12A and 12B Elk herd unit:

1. Maintain the elk population at very low levels.

2. Beginning in 2005, permitted deer hunters in Unit 12A have had the opportunity to purchase an elk tag valid for the same area and dates of their deer hunt. No elk were reported harvested. In 2008, this area was included in providing unlimited over-thecounter elk tags to continue pressure on this herd.

3. Region II will continue to monitor this herd and make hunt recommendations aimed at maintaining elk at very low densities on the Kaibab plateau. In 2007, there were

believed to be less than 12 elk on the Kaibab Plateau.

The following table summarizes current elk population management objectives for Region II units.

Unit	Management Objective
5A	Stabilize/Slightly Increase
5B	Stabilize/Slightly Increase
6A	Stabilize/Slightly Increase
6B	Stabilize
7	Stabilize
8	Stabilize
9	Stabilize
12A and B	Reduce

Region III

Elk populations in northwestern Arizona began increasing in the 1970s. This increased the conflicts between elk and local landowners and ranchers. Within 10 years, concerns about property damage, crop depredation, and competition with livestock became central to elk management in Region III. Elk management objectives in Region III, except in Unit 10, are to minimize conflicts with other wildlife resources, and public and private landholders.

The majority of occupied habitat in Region III is not historic elk habitat. The Region continues to deal with concerns over damage caused by the expanding elk populations. In an attempt to control the growth of these populations, Region III has also been steadily increasing the number of elk permits offered. Hunt permit levels are quite high for antlerless seasons, hunt structures are designed to increase harvest during the rutting period, or lengthened season dates for permit holders.

While "any elk" permits are ideal for the goal of removing elk in areas of concern, "any elk" permits generally are effectively used by hunters as "bull elk" permits. The best way to effectively decrease these populations is to reduce the antlerless population; hence the introduction of an early general season antlerless season and a significant increase in both "any elk" and antlerless elk permits during the late general season. Most recently, the introduction of unlimited, over-the-counter permit seasons are being offered in some areas.

The Department coordinates with landowners to maintain open areas for elk hunting, while directing permit holders into areas where elk need to be removed.

Management Objective
Stabilize
Reduce

Region VI:

Unit 21:

This unit primarily has only bull hunts. We continue to monitor the elk population through annual surveys and hunter harvest. Unit 21 is split into a Standard Population Management Zone, and a Limited Population Management Zone.

Although there have not been any complaints related to depredation in Unit 21, elk have access to private agricultural lands near the town of Camp Verde. This portion of Unit 21 is part of the Verde Valley Hunt Unit, which also encompasses portions of Units 6A and 19A. Hunts in the Verde Valley Hunt Unit are used to harvest elk that may be damaging crops. These hunts are currently administered out of Region III. The Verde Valley Hunt Area is also available to hunters that purchase over-the-counter elk tags, which are valid for any elk.

Unit 22:

For Unit 22 we harvest bull elk and antlerless elk in accordance with Department elk hunt guidelines. During 1998, Unit 22 was split into 22 North and 22 South elk hunts. Since that time, the Region has continued Unit 22 North and South separately as to direct harvest toward the southern portion of the unit.

Unit 23:

In Unit 23 we harvest bull elk and antlerless elk in accordance with Department alternative elk hunt guidelines. During 1997, Unit 23 was split into 23 North and 23 South elk hunts. Four limited opportunity hunts are held annually in the Canyon Creek Hunt Area of Unit 23 surrounding the OW Ranch area. Thirty-two antlerless permits were issued over four hunts. These hunts are to address elk overuse on riparian resources in the Canyon Creek area. The predicted combined harvest from the four hunts is 20-25 antlerless elk.

Unit 24A:

Unit 24A is managed as a Limited Population Management Zone. Currently occupied and potential elk habitat in the unit is not contiguous, and is relatively small in terms of

land area. The Region recommends the unit be managed for low levels of elk so other management objectives, such as enhancing mule deer and white-tailed deer populations, can be the primary focus. If observations of elk increase in the future, more aggressive antlerless harvests will be recommended.

For all these units we annually adjust the harvest of resident adult elk to keep population and hunt success parameters within Department guidelines. Population management hunts may be used to address problems associated with elk depredation on private and/or public lands in Units 22 and 23.

Unit	Management Objective
21	Stabilize
22	Stabilize
23	Increase
24A	Decrease

IV. Regional Habitat Management Objectives

Region I

The Region continues to conduct annual herbaceous forage production and utilization monitoring within the A-S in Units 1, 3B, 3C, 4A, and 27. The objective of the monitoring program is to gather habitat-based parameters for incorporation into the Region's annual elk population management recommendations. The Region's monitoring program was initiated in the early 1990's in response to concerns that high elk numbers were negatively impacting sensitive habitats within the A-S. Since that time, elk numbers have been reduced in Region I based on population surveys and a corresponding reduction in herbaceous forage use by elk. In addition, habitat conditions within many of the monitoring sites have improved and the Region continues to rely on antlerless elk seasons to manage elk population size on forest lands.

Region I has worked with the A-S, the Arizona State Land Department, and various private land owners to fund and implement many wildlife habitat improvement projects throughout the Region (primarily Units 1, 3B, 4A, 4B, and 27). The majority of landscape level habitat projects funded to date have primarily focused on mechanical and hand thinning of juniper encroached areas to improve habitat conditions within big game transition and winter range habitats, the application of prescribed fire within various habitat types, and the maintenance and development of wildlife waters. In addition, the Region has worked with the A-S to maximize benefits to wildlife associated with Wildland Urban Interface fuel reduction project activities. Improvement of habitat for other big game species such as mule deer and antelope have been the primary focus of many of the Region's recent landscape level habitat projects, though benefits also extend to associated elk populations. The region continues to utilize late-season elk hunts as a means of meeting overall elk management objectives, with accompanying hunter harvest typically occurring in these expansive winter range/transition habitat areas. The ability of hunters to use MBGR to harvest elk serves to disperse harvest of elk in these winter range

areas (beyond main roads and travel corridors) and to achieve the Department's elk population management objectives.

Region II

Antlerless and any elk hunts are needed in Region II to maintain elk populations within the biological and social carrying capacity of their habitat. In the 1990s and early-2000s, elk populations in Region II probably exceeded their carrying capacity, resulting in negative influences on habitat and wildlife. Excessive grazing and browsing by ungulates can damage habitat, requiring several years for vegetation to recover.

Antlerless and any elk hunts were used to reduce and stabilize the population. Since the 1990s, livestock owners have expressed concern about high populations of elk because elk may compete with livestock for resources. The Forage Resource Study Group and the Flagstaff and Williams Habitat Partnership, comprising members of the public and agencies, were formed in response to these concerns. These same livestock owners are currently worried about the effect of elk on browse for deer. In addition, when elk populations were high, local citizens were concerned about damage to ornamental shrubs and increased vehicle-elk collisions.

For many years, the Coconino and Kaibab National Forests have expressed concern about the impact of elk browsing on the regeneration of aspen. This is still a concern, but was heightened when elk were previously more numerous. Recently concerns have increased when adult aspen began dying at a high rate across the western United States.

In the early-2000s, the Forest Service had concerns about the negative impacts of high densities of elk on wetlands and wetland associated species, such as the endangered spinedace. The Friends of Anderson Mesa have recently expressed their concerns about high elk densities and their affect on pronghorn antelope and mule deer.

A recent decision regarding water developments on the Tusayan District of the Kaibab National Forest requires monitoring of elk browse impacts to vegetation.

Region III

The Region addresses concerns with elk and habitat through aggressive harvest management strategies. The Regional elk management goal is to reduce elk numbers and stabilize at levels such that habitat concerns are reduced to the degree of insignificance.

Elk that occupy the Prescott National Forest have expanded their range into many areas that historically had no or few elk. The use of vehicles to retrieve big game is essential to dispersing hunters to areas were harvest is needed.

Region VI:

Payson Habitat Partnership Committee (PHPC) has been monitoring both spring and fall utilization in key areas since 1994. Elk forage monitoring continues in accordance with the Draft Region VI Elk Forage Monitoring Protocol in Units 22 and 23 in key areas where elk are known to feed and congregate. Elk range in Region VI is primarily

composed of USFS land, with only 7% private land. Due to the minimal amount of private lands within elk range, Region VI historically has had few conflicts with elk on private properties.

Unit 21

In Unit 21 monitoring of the elk population in relation to habitat type is an objective. Currently, there are no elk utilizing the Agua Fria Grasslands. With an emphasis being placed on grasslands and grassland health, and possible grassland restoration in the future, documenting possible use of grassland areas by elk in the future will be important in Unit 21.

Unit 22

Conflicts in Unit 22 between elk and other uses of the land exist. The urban interface areas around the communities in northern Unit 22 experience regular incursions by elk. Golf courses at the Rim Club, Chaparral Pines, and Payson Municipal Golf Course experience seasonal damage from elk.

Strategies for resolving conflicts around the urban interface include educating residential and commercial property owners about ways to discourage elk from causing damage. Other tools include implementation of stewardship agreements with private property owners. Strategies for addressing potential conflicts involving overuse of the forage resources on public lands include cooperative biannual monitoring of elk forage use, implementation of habitat improvement projects through the Habitat Partnership Committee process, annually adjusting permit levels, and use of the Department's population management hunts.

Unit 23

In Unit 23, elk are impacting isolated riparian areas such as Canyon and Mule Creek. Three riparian enclosures were constructed in April 2002 with coordination from the Payson Natural Resource Committee (PNRC) to mitigate the impacts of elk on the Canyon Creek and Mule Creek riparian vegetation. Increasing elk use in upland key areas has been of some concern across the northern half of the Region. To address these issues a forage monitoring strategy has been developed by the USFS and Department with input from the PNRC. Some upland cover plots have also been established within the Dude Fire area by the USFS and may yield information on wildlife use over time.

Because of the relatively low elk population levels in Unit 24A at this time, there have not been documented complaints about overuse of forage by elk on public lands, and there have not been complaints about conflicts with elk in the urban interface in the unit.

V. Hunter Demographics and Logistics

Appendix B (the Age and Gender Distribution for Antlerless Elk Hunters) can be used to estimate the % of hunters that would be unlikely to hunt in areas where MBGR was unavailable. The general assumption is that juveniles (18 years and younger = 15.2%), females (21.3%), and hunters age 50 or more (30%) would require substantial assistance

to retrieve a downed big game animal. Even allowing for some overlap between segments, > 50% of the hunter population would probably be challenged to retrieve an elk without assistance.

There is a significant difference in the dedication between bull and antlerless elk hunters. Bull hunters get relatively fewer opportunities to harvest due to the difficulty in drawing a bull hunt permit-tag, and bull hunters are generally willing to do more work to be successful. Antlerless hunters, on the other hand, can generally obtain tags on a more frequent basis and are less willing to put in extra effort to harvest and retrieve an animal. Antlerless harvests are the best tool for reducing or stabilizing population growth. As a result, barriers that limit antlerless harvest will reduce the Department's ability to meet elk harvest objectives, and address concerns about impacts to meadows and aspen by elk.

Fall weather can be unpredictable, with 70° temperatures into late fall. Warm weather and delayed retrieval can lead to meat spoilage. Wasting game meat is unlawful in Arizona. A complete ban on MBGR for elk and mule deer may increase the occurrence of wasted or spoiled meat. There may also be an increase in injuries suffered by those lacking the knowledge, skills, abilities, or tools to properly process and pack an adult elk or mule deer buck. Vehicular access seems particularly important for antlerless elk hunters. Adult elk are too large to drag by hand, and too large to pack out whole. This requires greater knowledge and ability from a hunter that harvests a large-bodied big game animal where it cannot be easily retrieved by vehicle. In an effort to educate hunters, the Department has published a booklet with instructions for handling big game and is in the process of providing these instructions on its internet web page via links to you-tube video. Despite these efforts, limited MBGR can result in spoiled meat unfit for consumption, wasted meat left in the field, and injuries to hunters who were physically unprepared for the rigors of field processing and packing big game.

The Department recognizes damage due to MBGR can occur during times of wet conditions. The Department coordinates with the USFS to rehabilitate these areas and coordinates with the USFS to establish closed areas to prevent or minimize damage. The emphasis should be on not allowing MBGR when driving cross-country would cause resource damage. This would be in line with the Coconino and Kaibab National Forests Wet Roads System. When wet road conditions occur, hunters are notified that cross-country travel is prohibited and many ancillary roads are closed. The Department could also enact similar regulation in statute or rule, which would allow Department officers to actively enforce these regulations

VI. Law Enforcement

The Department aggressively enforces Off Highway Vehicle (OHV) laws. The Department's statutory authority can be found in both Arizona Revised Statutes (ARS) Titles 17 and 28. The Department receives dedicated funding for OHV law enforcement and information and education activities. In addition, the Arizona State Legislature passed a bill last legislative session that will significantly affect the State's ability

(including the Department) to enforce laws, educate the public, and provide funding for the same (grant programs) as well as habitat protection.

A. Rules and Statutes

New Laws

On January 1, 2009 new OHV laws take effect that establish a user fee and provide more enforceable regulations for operation and equipment, including statutes to protect natural resources from OHV damage. This is a fundamental change in OHV enforcement efforts and allows for a broader application of the enforcement program and includes seven new enforcement positions to provide for opportunities to expand interaction with user groups as well as at-large users. In the past, the Department was limited to enforcing the only two existing statutes to protect natural resources from OHV damage. These were for reckless operation and property damage (ARS § 28-1174) and cross country travel (ARS § 17-454) both of which were very limited in scope and applicability. The new laws will greatly enhance our enforcement abilities.

ARS § 28-1174

This statue was amended to clarify appropriate operation. The emphasis of this statute is to keep individuals on roads and trails. In the past the Department was limited on citing individuals that ignored posted closures due to the fact that if it was a road and it was not closed through Commission Order, it did not meet the definition of cross country travel and was unenforceable. That has changed and officers will be able to issue citations. In addition, new language prohibits travel on roads that are not open by rule or regulation or have not been designated. Another section prohibits use of an OHV in violation of other statutes that explicitly address damages to the environment including excessive pollution of air, water, land, abuse of watershed or cultural or natural resources or impairment of plant or animal life. These changes are significant not only for enforcement, but also the awareness of the public. Training efforts will be implemented to help promote consistent application of the laws and increase compliance by the recreating public.

ARS § 28-1175

Education has been conspicuously lacking with respect to operation of OHVs in a manner that reduces impact to natural resources. The new law requires education to be available for violators. The Arizona Game and Fish Department is currently completing curriculum to address this need. This class should be available in January 2009 and will emphasize responsible and safe operation of OHVs with focus on environmental impacts, rules and regulations and special concerns such as dust and where to find information on places to ride.

ARS § 28-1176

This section was amended to increase funding available for grants and agreements, education, and law enforcement. Traditional areas of focus were expanded and now give preference to projects that include mitigation. In addition, funding can be expressly used for cultural, environmental and historic clearances. The Department

will gain seven new full time officers for the enforcement of OHV regulations. The addition of the seven new positions will bolster enforcement efforts and provide for opportunities to expand interaction with user groups as well as at-large users. These positions will be distributed throughout the state but will also be able to work on special task force projects. The goal is to provide natural resource protection and assure sustainable access.

ARS § 28-1177

This section establishes a user fee through the OHV Decal program. This decal will be applied either to a title only plate (RV or OHV) or to a registration plate (MC). This new program will provide funding to bolster OHV management efforts including facility development and maintenance, education, enforcement and increase user awareness of OHV issues through improved information and education. Accountability is increased through this program since there is a direct tie to the Motor Vehicle Record and a requirement to display the decal.

ARS § 28-1179

This section addresses the required equipment for OHV operation and adds the requirement for OHVs to have a USDA approved spark arrestor and restricts sound levels to 96dB. Persons under the age of 18 are required to wear a properly fitted and fastened DOT approved helmet when riding on an OHV. These requirements will provide opportunities for operators to increase their awareness of issues affecting OHV recreation and access.

B. Enforcement Practices

The Field Operations Division in Phoenix administers the Arizona Game and Fish Department's OHV Program including OHV law enforcement patrol and management efforts. OHV personnel within the Law Enforcement Branch as well as officers from six Regional offices, provide field presence, support, training, and administration of the OHV law enforcement efforts. These OHV enforcement efforts are focused to promote safe, ethical and responsible OHV use. Currently, over 100 field officers enforce laws, and guidelines which have been created to achieve safe, legal, and responsible OHV use by the public. To address statewide habitat protection and public safety goals and objectives, these officers operationally plan for and conduct OHV law enforcement, habitat damage, and outreach patrols across the state.

Routine Patrols

Department officers conduct routine OHV patrols to increase voluntary compliance with laws and rules and to educate OHV users on safe, ethical, and responsible OHV use. In support of these Regional efforts, 24 hour officer patrol assistance is directed at localized and high intensity areas requiring extra officer support. Routine effort occurs in conjunction with normal duties in public lands and state trust lands.

Targeted Patrols

Department officers conduct targeted patrols in high use, high violation, closed, and sensitive areas to increase voluntary compliance with laws and rules through

prosecution of violations and to educate OHV users on safe, legal, and ethical use of OHVs. The Department's OHV Law Enforcement Program Manager coordinates group projects with the Regional Law Enforcement Program Managers. Areas of special emphasis include specific hunt areas, antler pick-up patrols, high use OHV areas, OHV races, sensitive area protection patrols, and wilderness incursion prevention efforts. The Departments 2010-2011 Operational Plan reflects 15 OHV targeted patrol efforts. These patrols range in focus and include activities such as antler collection, fisheries compliance, OHV races, and projects related to habitat and wildlife protection.

OHV Violation Reporting

When the public observes habitat destruction or other unlawful activities, the public can report these violations to the Department via our toll free OGT Number or the 1-800-VANDALS Number. To raise public awareness and increase public activity of these numbers, additional Department outreach and advertisement of these numbers is being developed and implemented.

Hunting Season Patrol

General hunt season patrol efforts include OHV enforcement, outreach, and education during hunt patrols. Hunters using OHVs, as well as general OHV recreationalists, are routinely contacted in conjunction with seasonal hunting patrols during small and big game hunts. Hunters are encouraged to reduce their cross country travel when retrieving big game particularity in sensitive habitats or during wet field conditions.

Support Equipment

The Department utilizes remote sensing equipment, trail cameras, fixed-wing aircraft surveillance, and other techniques to monitor and assist with apprehending OHV violators. These efforts are both expensive and labor intensive as well as limited in scope. They have proven to be effective in special projects and remote area enforcement efforts.

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APPENDIX A From 2008 Hunt Arizona Book

ELK SURVEY AND HARVEST DATA 2008

Survey & Harvest data from 2008 Hunt Arizona Book/Data summary Book (Historic data and 50year data by unit)

5-Year: 2003-2007 Harvest

Columns: Unit, Herd-Unit, Year, Hunt Type, Dates, Permits Authorized, First Choice Applicants, Permits Issued, Draw Odds, Hunters, Hunter Days, Harvest (Bull, Spike, Cow, Calf, Total), Hunt Success.

Hunt	Surange
T	Patal
	ow Calf Total
larvest	Cow
H	Spike
	Bull Snike
Hunter	Davs
	Issued Odds Hunters Days
Draw	Odds
Permits 1" Ch. Permits Draw	Issued
1" Ch.	Appl.
Permits	Auth.
	Dates
Hunt	Type
	Year
Herd-	Unit
	Unit

ES	2003	ALS	11/28/-12/01	75	114	75	29.8	71	213	0	O			-
ES		ALS	12/17/-12/23	75	89	75	26.5	69	247	0	0 0			T C
ES		ALS	12/16/-12/22	75	19	75	55.7	73	2,46	0 0	0 0			O r
ES		ALS	12/15/-12/21	65	20	65	36	2 2	727	0 0	0 0			- T
ES		ALS	00/01-/41/01	20	98	3 5	200	3	733	0 1	0			5
Na		VIV	מטיבו /פטיבו	2 6	000	20	24.5	40	137	0	0			0
200		OT.	60/71-/50/71	33	53	35	65.5	32	102	0	0			-
KV		ALS	12/19/-12/23	35	11	35	100	35	116	0	0			1
XX		ALS	12/10/-12/14	30	2	30	100	26	00	0	0			
RV		ALS	12/24/-12/28	30	9	30	100	27	87	0				200
RV		ALS	12/09/-12/13	30	15	30	86.7	30	811	0 0	, ,	2 1	200	-0.0
RV		ALS	12/23/-12/27	30	4	30	100	280	100	0 0				
RV		ALS	12/08/-12/12	30	v	28	100	1 5	000	0 0	0 (
RV		ALS	30/01-/00/01	30	v	1 5	200	ું ત	60	0	0			200
RV		SIV	11/01/20/21	2 0	7	20	100	77	73	0	0			
166		3 .	11/21-1/0/51	20	71	30	2.99	30	86	0	0			1000
	2003	ALS	11/28/-12/01	375	1555	375	15.4	355	1010	C	c			
	2003	ALS	12/12/-12/15	300	473	300	275	1770	202	2 6	0 0			78
	2004	ALS	12/17/-12/23	450	1757	450	101	1	cn.	0	0			CO.
	2005	AIC	CUCI /31/CI			2	10.7	434	1455	0	0			1
	2000	200	22/21-101/21	470	1749	420	21.3	395	1446	0	0			64
	2000	ALS	12/15/-12/21	105	820	105	7.3	101	271	C	0			1
	2007	ALS	12/14/-12/20	70	357	70	0	47	1					-
						7.0	7.0	0	177	C	C		2	73

98 6 11	2	0 17	01	6	9	22												26																	
6 11	30 2	0				=	9	М	N	m	ri	00	7	2	0	0	C	9	10	m	10	9	2	9	7	m	4	80	10	-	10	Ŋ	r1	0	90
11	30		0	0	0	0	0	0	0	0	0	S	N	0	0	0	0	0	m	0	0	0	0	0	0	0	0	0	0	0	0	-	0	0	0
	.,,	17	7	N	9	13	9	m	S	m	N	m	S	0	0	0	N	9	7	М	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	a	0	0	0	0	0	0	0	0	4
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770	217	661	142	901	131	128	8	130	144	172	111	80	205	138	148	104	135	94	73	66	40	44	62	26	37	37	16	33	38	36	108	78	87	25	41
216	63	46	25	23	25	25	21	23	32	32	23	18	38	32	25	18	21	23	61	18	10	10	10	10	01	6	20	5	=	6	20	15	14	10	6
61.9	11.4	36.5	18	100	100	78.6	100	100	94,4	100	100	40	77.8	100	100	ı	100	100	100	100	10.3	4.7	21.1	2,6	4.3	42.9	15,4	26.3	35.7	7.7	10.2	12.9	33,3	50	17.1
225	65	20	25	25	25	25	25	25	40	35	25	20	40	34	25	20	25	25	20	19	10	10	10	01	10	10	20	15	15	10	20	15	15	10	6
126	158	85	21	m	7	14	00	6	18	7	7	S	6	7	1	0	4	9	n	9	58	43	19	126	23	14	78	19	28	13	147	31	15	12	41
225	65	20	25	25	25	25	25	25	40	35	25	20	40	35	25	20	25	25	20	20	10	10	10	10	10	01	20	15	15	10	20	15	15	10	10
12/02/-12/08	12/01/-12/07	11/30/-12/06	9/05/-9/14	9/26/-10/05	10/10/-10/19	61/6-/01/6	10/01/-10/10	10/15/-10/24	81/6-/60/6	9/30/-10/06	10/14/-10/23	12/02/-12/11	9/15/-9/24	10/06/-10/12	10/20/-10/29	12/08/-12/17	8/24/-9/06	10/05/-10/14	10/19/-10/28	12/07/-12/16	9/05/-9/14	9/26/-10/05	10/10/-10/19	61/6-/01/6	10/01/-10/10	10/15/-10/24	81/6-/60/6	60/01-/08/6	10/14/-10/23	12/02/-12/11	-0.375	10/06/-10/15	10/20/-10/29	12/08/-12/17	8/24/-9/06
ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	ALS	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE	AE
2005	2006	2007	2003	2003	2003	2004	2004	2004	2005	2005	2005	2005	2006	2006	2006	2006	2007	2007	2007	2007	2003	2003	2003	2004	2004	2004	2005	2005	2005	2005	2006	2006	2006	2006	2007

	2007		10/05/-10/14	10										1	1
	2007	AF	90/01-/01/01	2 5	/ .	2 :	6.81	10	45	00	0			8	dio Con
	7007		07/01/61/01	2 .		10	18.2	00	46	4	0			4	20
	2000	2 4	12/01/-12/16	01	36	6	15.4	6	45	0	0			r	22
	5007	ALS	10/14/-10/19	380	712	380	32	373	1438	0	0			146	1 6
	2000	ALS	10/13/-10/18	265	651	265	24.4	250	883	0	0			170	7 5
	2006	ALS	12/08/-12/14	250	127	250	72.4	233	894	0	0			7	7 2
	2007	ALS	10/12/-10/17	265	161	264	22.9	258	998	0	0	178	1 2	11/6	0 1
	7007	ALS	12/07/-12/13	250	258	250	55.4	250	958	0				040	30
	2003	ALS	10/17/-10/22	250	344	250	47.1	241	924	0				100	40
	2004	ALS	10/22/-10/27	250	477	250	30.8	238	1013	0 0	0 0			63	45
	2005	ALS	10/21/-10/26	300	85	300	80	288	1144	0 0				100	4 .
	2006	ALS	10/20/-10/26	300	304	300	55.3	289	1180	0 0	0 0			86	34
	2007	ALS	10/19/-10/25	300	961	300	57.1	280	1047	0 0	0 0			611	41
	2003	ALS	8/08/-8/21	15	17	15	11.8	10	, ox	> 0	0 0			149	23
	2004	ALS	10/01/-12/31	5	12	in	417	·		0 0	0 0			0	0
	2005	ALS	8/12/-8/25	S	7	u	25	1 0	9 0	0	0 0			0	0
	2003	AE	8/08/-8/21	10	000	10	2 4	2 5	2 2	o 1	0 0			0	•
	2004	AE	10/01/-12/31	N,	36			2 4	6 6	n 1	0			00	80
	2005	AE	8/12/-8/25	v	43	v	11.6	ת ע	2.0	-1	N.			4	80
	2003	ALS	10/03/-10/16	75	100	7 1	0.11	0 1	30	0	0			0	0
	2004	ALS	10/08/-10/21	75	901	2 1	46.3	75	353	0	0			26	35
	2005	ALS	02/01-/20/01	7 7	20	2 1	29.4	/2	371	0	0			29	39
	2006	ALS	30/01-/51/01	27	20 20	2 !	28.7	72	345	0	0			24	33
	2007	ALS	25/01-/51/01	75	מ מ	75	82.9	73	395	0	0			15	21
	2003	ATE	11/26/17/04	2 5	15	75	81.1	89	283	0	0			15	75
	2007	AI C	10/71-/07/11	000	243	150	37.4	148	557	0	0			41	000
	2004	N N	00/21-12/12	577	781	225	46.3	221	988	0	0			61	28
	2004	AIR	50/21-/50/21	0/2	158	70	22.8	64	250	0	0				9
	2005	AIG	00/01/00/01	577	279	225	37,3	217	821	0	0			69	33
	2000	9 4	2/07/-12/08	0/	117	70	21.4	99	249	0	0			14	1 6
	5005	ALS	12/16/-12/22	225	221	225	47.5	214	931	0	0			2,6	47
	2000	ALS	12/08/-12/14	20	68	20	41.6	47	162	0	C			2.0	200
	2000	ALS	12/15/-12/31	150	227	150	39.2	147	735	0	0			1 5	7
	7007	ALS	12/07/-12/13	20	66	50	25.3	46	191					5 5	20
		ALS	12/14/-12/30	150	203	150	48.8	147	703		0 0			0	33
CH		ALS	10/17/-10/22	10	26	10	23.1	i ox	35	2 0	5 6			47	33
CH	2004	ALS	10/22/-10/27	10	24	10	375		2 .	> (0			4	20
						2	7.7	'n	34	0	0			9	19

2B 2B 3A/3C 3A/3C 3A/3C 3A/3C 3A/3C 3A/3CE 3

20	80	63	64	45	34	45	47	51	42	34	46	39	100	20	20	100	0	33	30	20	100	100	19	52	57	24	59	47	52	41	47	39	91	10	
4	500	25	95	65	49	19	99	73	119	81	73	38	10	5	S	10	0	10	m	_	40	т	176	101	162	29	146	16	1771	78	136	75	8	7	
0	0	0	00	C1	9	10	9	00	12	6	4	5	0	0	0	0	0	0	0	0	0	0	8	7	29	10	13	7	11	9	14	10	m	rı	
4	80	S	87	63	43	57	09	65	107	72	69	33	10	'n	5	S	0	5	m	-	0	m	168	94	133	57	133	87	166	72	122	65	'n	S	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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29	38	39	465	482	909	533	550	416	809	714	556	372	20	20	30	65	06	95	37	13	29	m	815	731	1016	1077	911	746	1332	714	1196	812	192	284	
8	10	DO	148	145	146	148	140	142	284	241	158	86	10	10	10	10	13	15	10	S	S	m	263	193	285	280	247	195	338	189	292	190	20	73	
31	31	26.7	48.1	26.7	62.9	1.09	43.9	19.6	22.1	30.1	22.1	22.2	100	100	100	20.5	77.8	100	100	i	3.9	0	22.3	42	18.4	41.3	20.8	48.5	26.5	30.7	27.9	59.7	100	63.6	
10	10	6	150	150	150	150	150	150	300	250	170	100	10	10	10	10	15	15	01	2	5	'n	275	200	300	300	250	200	350	200	299	200	20	75	24.0
29	29	30	185	352	135	158	180	613	861	631	484	347	CI	2	-	44	6	-	m	0	16	23	206	193	1235	363	890	163	1041	319	763	154	1	Ξ	
10	10	10	150	150	150	150	150	150	300	250	170	100	10	10	10	10	15	15	10	2	S	S	275	200	300	300	250	200	350	200	300	200	20	75	- ACA
10/01-/20/01	10/13/-10/19	10/12/-10/18	10/17/-10/22	10/22/-10/27	10/21/-10/26	10/20/-10/26	10/19/-10/25	11/07/-11/10	11/12/-11/15	11/11/-11/14	10/27/-11/02	10/26/-11/01	10/01/-10/31	11/01/-11/30	12/01/-12/31	9/01/-9/30	8/01/-9/13	10/12/-11/01	11/02/-11/22	11/30/-12/31	8/01/-9/13	11/30/-12/31	10/17/-10/23	11/28/-12/04	10/15/-10/21	12/03/-12/09	10/14/-10/20	12/02/-12/08	10/20/-10/26	12/01/-12/07	10/19/-10/25	11/30/-12/06	10/15/-10/21	10/20/-10/26	
ALS	ALS	ALS						ALS							ALS							AE				ALS	ALS		ALS						
2005	2006	2007	2003	2004	2005	2006	2007	2003	2004	2005	2006	2007	2003	2003	2003	2003	2007	2007	2007	2007	2007	2007	2003	2003	2004	2004	2005	2005	2006	2006	2007	2007	2004	2006	
CH	CH	CH											IM	WI	WI	W																	SM	SM	
18	38	3B	3CW	3CW	3CW	3CW	3CW	4A	4A	4A	4A	4A	4B/5A	4B/5A	4B/5A	4B/5A	4BN	4BN	4BN	4BN	4BN	4BN	5A	5A	5A.	5A.	5A.	5A	5A	5A	5A	5A	5A/5BN	5A/5BN	

SA/SBN	CM	2002	Y	10/01/120/01	75	VCE.	36	4 21	1	000	ť	16	•		1	d
NICONO.	MIC	2002	אב	00/01-/00/01	2	774	0	13.4	2	739	32	7	1	2	3	HS
5A/5BN	SM	2004	AE	10/15/-10/21	75	285	75	17.9	73	277	20	0	13	0	33	45
SA/SBN	SM	2005	AE	10/14/-10/20	75	249	75	22.1	75	371	30	2	4	0	36	48
5A/5BN	SM	2006	AE	10/20/-10/26	75	153	75	34	70	305	27	0	0	0	27	39
5A/5BN	SM	2007	AE	10/19/-10/25	75	303	75	18.8	75	318	35	0	0	0	35	47
SBN		2003	ALS	11/28/-12/04	200	323	200	30.3	192	734	0	0	50	00	58	30
SBN		2004	ALS	12/03/-12/09	125	225	125	24	117	367	0	0	55	2	57	49
SBN		2005	ALS	12/02/-12/08	100	144	100	33.3	86	369	0	0	27	4	31	32
SBN		2006	ALS	12/01/-12/07	125	200	125	42	123	462	0	0	45	=	56	46
SBN		2007	ALS	11/30/-12/06	150	177	150	42.9	150	626	0	0	34	CI	36	24
SBN	ML	2003	ALS	10/17/-10/22	250	290	250	46.2	244	770	0	0	103	2	115	47
SBN	ML	2004	ALS	10/15/-10/21	200	352	200	38.9	961	402	0	0	83	Ξ	94	48
SBN	ML	2005	ALS	10/14/-10/20	300	406	300	43.1	290	086	0	0	113	60	141	49
SBN	ML	2006	ALS	10/20/-10/26	300	380	298	46.3	288	1044	0	0	104	00	112	39
SBN	ML	2007	ALS	10/19/-10/25	300	401	299	39.9	287	1163	0	0	124	6	133	46
SBN	F	2003	ALS	10/17/-10/22	200	Ξ	200	87.4	186	725	0	0	46	7	48	36
SBN	H	2004	ALS	10/15/-10/21	140	81	140	70.4	138	556	0	0	35	0	35	25
SBN	TT	2005	ALS	10/14/-10/20	140	19	140	100	135	541	0	0	91	4	30	22
SBN	E	2006	ALS	10/20/-10/26	140	59	140	84.7	136	524	0	0	28	9	34	25
SBN	H	2007	ALS	10/19/-10/25	100	54	100	93.6	95	363	0	0	30	C	32	34
SBN	AD	2003	AE	10/03/-10/08	35	128	35	22.7	35	137	13	7	0	0	15	43
SBN	AD	2004	AE	10/15/-10/21	15	06	15	8.9	15	42	6	0	0	0	6	09
SBN	GV	2005	AE	10/14/-10/20	20	83	20	18.1	18	88	6	N	0	0	17	19
SBN	T	2003	AE	10/03/-10/08	20	191	50	15.5	48	179	26	0	2	0	28	58
SBN	E	2004	AE	10/15/-10/21	25	62	25	21	23	98	6	0	9	0	14	61
SBN	F	2005	AE	10/14/-10/20	20	99	20	21.2	20	74	10	0	ci	0	12	09
SBN	L	2006	AE	10/20/-10/26	70	244	70	16.8	70	298	20	0	9	7	28	40
5BS ·		2003	ALS	11/28/-12/04	175	457	175	20.4	171	909	0	0	81	4	85	50
SBS		2004	ALS	12/03/-12/09	400	766	400	28.7	384	1176	0	0	165	20	185	48
SBS		2005	ALS	12/02/-12/08	475	785	475	33.2	450	1549	0	0	234	26	260	58
SBS		2006	ALS	12/01/-12/07	520	933	520	33.1	504	1745	0	0	226	12	238	47
SBS		2007	ALS	10/19/-10/25	625	2100	625	21.3	609	2002	0	0	316	29	345	57
SBS		2007	ALS	11/30/-12/06	550	384	549	47.4	521	1859	0	0	154	20	174	33
SBS	HM	2003	ALS	10/03/-10/08	300	842	300	24.8	298	953	0	0	182	17	199	29
SBS	HW	2004	ALS	10/15/-10/21	325	844	325	23.9	313	838	0	0	214	22	236	75
SBS	ΗM	2005	ALS	10/14/-10/20	400	1077	400	29.3	400	1210	0	0	212	24	236	59

19	45	49	47	24	49	48	38	01	53	29	38	0	09	30	09	45	35	63	38	44	40	48	33	40	23	29	27	23	28	27	54	38	54	56	
276	29	83	80	45	234	249	257	m	10	9	00	0	m	'n	9	216	191	22	23	22	22	36	101	129	87	113	111	107	92	85	115	118	105	195	
14	3	16	7	1	17	23	01	0	0	0	0	0	0	0	0	17	34	N	3	0	0	4	9	17	Ξ	5	14	91	17	10	00	4	9	21	
262	62	19	73	38	217	226	247	m	10	9	8	0	0	0	m	661	127	20	20	22	22	32	95	112	92	101	16	16	75	75	107	104	66	174	
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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1224	474	505	292	752	1671	1975	2700	93	63	73	88	83	15	40	48	1626	1793	113	215	154	187	277	1294	1100	1609	1530	1809	1799	1358	1331	752	1224	069	1153	
414	150	170	169	185	474	522	219	30	19	21	21	15	50	01	10	479	466	35	09	20	55	75	302	319	381	388	417	464	334	319	214	313	194	347	
27.2	33.4	41.1	39.1	47.1	19.8	18.5	23.8	100	100	55	76.5	28.6	8.3	9.4	14	18.9	14.8	13.9	44.3	21.5	18.8	32.8	38.7	48.7	61.1	51	76.2	34.7	45.1	51.2	52.9	52.5	26	31,2	
429	150	180	180	190	485	533	669	30	25	25	25	15	'n	10	10	505	475	35	75	20	55	75	315	340	400	399	448	480	340	325	219	325	200	350	
1178	305	275	366	206	1444	1498	1502	1	10	20	17	28	24	64	20	1520	1873	180	70	144	176	137	450	392	357	357	261	792	386	381	225	373	504	762	
430	150	180	180	190	485	535	700	30	25	25	25	15	Ŋ	10	10	505	475	35	75	20	55	75	315	340	400	400	450	480	340	325	220	325	200	350	
10/20/-10/26	10/03/-10/08	10/15/-10/21	10/14/-10/20	10/20/-10/26	12/02/-12/08	12/01/-12/07	11/30/-12/06	10/15/-10/21	10/14/-10/20	10/20/-10/26	10/19/-10/25	11/19/-11/25	11/18/-11/24	11/24/-11/30	11/23/-11/29	12/03/-12/09	10/03/-10/08	10/15/-10/21	12/03/-12/09	10/14/-10/20	10/20/-10/26	10/19/-10/25	11/28/-12/04	12/03/-12/09	12/02/-12/08	12/01/-12/07	11/30/-12/06	10/03/-10/08	10/15/-10/21	10/14/-10/20	10/20/-10/26	10/19/-10/25	10/03/-10/08	10/15/-10/21	The state of the state of
ALS	AE	AE	AE	AE	ALS	3000																													
2006	2003	2004	2005	2006	2005	2006	2007	2004	2005	2006	2007	2004	2005	2006	2007	2004	2003	2004	2004	2005	2006	2007	2003	2004	2005	2006	2007	2003	2004	2005	2006	2007	2003	2004	-
HW	MM	MM	MM	MM				۸۸	^^	^^	3	^^	^^	^^	^^																				
SBS	SBS	SBS	SBS	SBS	6A	6A	6A	6A/19A/21	6AN/6AS	6AS	6AW	6AW	6AW	6AW	6AW	6B	6B	6B	6B	6B	7E	7E	7E	7E	7E	7W	7W								

8/	54	28	29	28	38	28	44	55	54	42	50	51	38	46	43	29	29	25	43	18	22	22	24	28	er	c	, Ç	C.	95	29	2	120
263	197	108	113	52	71	52	218	184	182	162	193	202	145	172	162	169	991	165	282	139	164	691	178	160	174	C		n	15	ŕ	1	y
33	36	4	15	4	4	0	25	34	80	13	26	27	10	20	13	26	4	25	40	21	15	22	15	24	8	c		à	0	c	,	•
230	225	104	16	48	67	52	193	160	164	149	167	175	135	152	149	143	152	140	242	118	133	147	163	136	156	O			m	C	1	-
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1637	1791	1612	1594	798	784	608	1880	1233	1297	1574	1443	1535	1658	1499	1463	2365	3078	2746	2754	3206	3877	3376	3839	2500	2956	109	107		127	16		146
459	486	389	388	188	186	187	490	334	340	386	388	397	385	374	378	582	576	653	652	764	191	770	757	574	568	16	17		27	20		20
32.7	35.3	29.9	38.7	28.8	30.8	40.6	45.1	41.9	70.7	45.8	57.6	42	54.8	37.1	72.7	43.5	49.6	41.2	64.5	51,1	9.09	54.3	68.7	51.7	85.8	39.1	27.8		70	5.9		16.0
475	499	400	400	200	200	200	200	350	350	400	400	400	400	400	398	009	009	700	700	800	800	800	800	009	599	20	20		30	20		00
1015	1019	758	630	368	383	288	652	508	270	109	396	638	409	999	245	786	919	1138	581	904	746	841	529	949	289	46	36		90	287		17
475	200	400	400	200	200	200	200	350	350	400	400	400	400	400	400	009	009	200	700	800	800	800	800	009	009	20	20		20	20		20
10/20/-10/26	10/19/-10/25	11/28/-12/04	12/03/-12/09	12/02/-12/08	12/01/-12/07	11/30/-12/06	10/03/-10/08	10/15/-10/21	12/03/-12/09	10/14/-10/20	12/02/-12/08	10/20/-10/26	12/01/-12/07	10/19/-10/25	11/30/-12/06	10/03/-10/09	11/28/-12/07	10/15/-10/21	12/03/-12/12	10/14/-10/20	12/02/-12/11	10/20/-10/26	12/01/-12/07	10/19/-10/25	11/30/-12/06	9/24/-10/07	10/31/-11/16	16/20/12/14	41/71-/07/11	10/01/10/01		11/05/-11/21
ALS	AE	AE	<u>u</u>	YE.	AE		AE																									
2006	2007	2003	2004	2005	2006	2007	2003	2004	2004	2005	2005	2006	2006	2007	2007	2003	2003	2004	2004	2005	2005	2006	2006	2007	2007	2004	2003	2002	COOS	2004		2004
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80	70		55	55		37	40	32	24	21	85	98	38	58	47	81	40	20	38	10	15	09	09	0
24	21	3	5	32		22	25	24	16	18	17	48	73	35	20	10	9	m	2	21	3	n	n	0
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6		C y	00	4		16	23	20	12	70	4	7	22	m	7	CI	9	0	S	7	m	0	0	0
m	0		0	0		0	0	0	0	0	0	0	7	0	2	0	0	0	0	0	0	0	0	0
12	20	16	13	28		0	0	0	0	0	13	44	4	32	22	0	0	0	0	0	0	m	m	0
192	134	16	290	396		380	332	473	3578	4243	87	235	1945	375	1959	99	108	83	88	142	147	47	37	11
30	30		38	28		09	63	9/	379	392	20	56	193	09	161	11	15	15	18	20	20	5	'n	m
14.7	5.6		20.5	25.7		93.8	82.2	65.7	98.5	100	5.5	9.2	15.7	12.5	16.8	83.3	ī	100	100	i	001	33.3	30	11.1
30	30	1	40	09		65	65	80	398	398	20	09	200	09	195	15	15	15	20	20	20	w	2	2
116	338		44	140		32	45	29	133	127	153	358	781	255	648	9	0	7	9	0	9	15	10	6
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12/03/-12/19	9/30/-10/16		11/04/-11/20	12/02/-12/18	The state of the state of	9/26/-10/12	10/01/-10/17		10/20/-12/17		9/26/-10/12	61/01-/90/01	10/20/-12/17	10/05/-10/18	10/19/-12/16	10/01/-10/17	11/05/-11/21	12/03/-12/19	9/30/-10/16	11/04/-11/20	12/02/-12/18	10/01/-10/11	11/05/-11/21	12/03/-12/19
AE	AE		AE	AE		ALS	ALS	ALS	ALS	ALS	AE	AE	AE	AE	AE	ALS	ALS	ALS	ALS	ALS	ALS	AE	AE	AE
2004	2005	7	2005	2005		2003	2004	2005	2006	2007	2003	2006	2006	2007	2007	2004	2004	2004	2005	2005	2002	2004	2004	2004
																WS	WS	WS	WS	WS	WS	WS	WS	WS
15A/15B/17A/ 18/19B	15A/15B/17A/ 18/19B	15A/15B/17A/	18/19B	18/19B	15A/15B/17/18/	19B/20A/20C	15A/15B/17/18/ 19B/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C	17/20A/20C								

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	10 7,7 10 80 4 0	10 28.6 10 76 1 0	100 8 42 0 2	24.1 15 49 0 0	64.5 25 86 0 0	100 25 88 0 0	20 106 0 0	50 217 0 0	13 37 0 0	45 218 0 0	16 49 0 0	296 0 0	272 0 0	273 0 0	390 0 0	0 0	0 0	0 0	0 0	0 0	0	0 0	0 0	000	00	0	0 0	0 0	0 0	0 0	0 0	0	0	0 61
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	n	9	15	40	19	41	7	27	10	39	40	9	S	m	4	7	4	4	4	m	0	_	3	0	4	0	0	'n	0	09	54	25	37	99	m	8
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	m	9	11	36	19	38	7	25	01	39	35	7	2	m	4	1	4	4	4	m	0	1	n	0	0	0	0	m	0	54	51	25	34	59	m	0
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18	23	24	108	349	88	332	127	341	80	305	283	7.1	44	63	80	11	09	120	92	11	64	41	63	33	29	43	23	28	48	983	528	435	273	580	101	59
	00	00	26	98	30	78	30	83	25	88	68	20	13	17	16	20	16	20	19	17	16	1	10	1	'n	5	m	'n	2	286	167	134	89	143	25	91
	62.5	40	9'61	36.7	9'61	36,2	21.1	38.2	18.5	44	38.1	52,2	18.2	27.3	100	12	28.9	14.3	42.9	33,3	100	20	100	100	2.9	8.1	14.3	11.5	17.6	20	20.7	19.2	17.8	25.8	100	32.1
	œ	00	30	06	30	06	30	06	30	06	100	20	20	20	20	20	20	20	20	20	20	1	10	10	'n	S	'n	S	5	300	175	140	70	150	28	16
	00	15	92	120	92	141	114	68	119	100	126	23	99	33	9	25	38	1	14	12	9	7	4	-	103	62	21	56	17	096	959	433	298	349	-	28
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	9/01/-9/10	9/14/-9/17	10/17/-10/23	12/05/-12/11	10/22/-10/28	12/10/-12/16	10/21/-10/27	12/09/-12/15	10/27/-11/02	12/15/-12/21	12/07/-12/13	10/17/-10/23	12/05/-12/11	10/22/-10/28	12/10/-12/16	10/21/-10/27	12/09/-12/15	10/27/-11/02	12/15/-12/21	10/26/-11/01	12/07/-12/13	12/01/-12/12	12/01/-12/12	11/30/-12/11	12/01/-12/31	12/01/-12/12	12/01/-12/12	12/01/-12/12	12/01/-12/12	10/17/-10/20	10/22/-10/25	10/21/-10/24	10/27/-11/02	10/26/-11/01	8/17/-8/23	8/17/-8/23
	ALS	ALS	ALS													ALS								20											Ca.	AE
	2007	2007	2003	2003	2004	2004	2005	2005	2006	2006	2007	2003	2003	2004	2004	2002	2005	2006	2006	2007	2007	2005	2006	2007	2003	2004	2002	2006	2007	2003	2004	2005	2006	2007	2007	2007
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		2005	ALS	8/19/-8/25	90	16	20	100	45	160	0	0	12	0	0	7
		2006	ALS	8/18/-8/24	75	39	75	100	69	257	0	0	CI	0	71	143
		2007	ALS	8/17/-8/23	20	12	50	100	48	161	0	0	4	9	10	17
		2003	ALS	11/21/-12/07	01	11	10	54.5	6	41	0	0	0	0	0	0
		2004	ALS	10/01/-11/14	10	13	10	46.2	10	83	0	0	N	0	13	30
		2004	ALS	11/19/-12/31	10	7	10	57.1	10	140	0	0	0	0	0	0
		2005	ALS	9/30/-11/13	10	10	10	70	10	160	0	0	0	0	0	0
		2005	ALS	11/18/-12/31	10	10	10	20	S	70	0	0	0	0	0	0
30.		2006	ALS	10/06/-11/02	15	7	15	71,4	12	30	0	0	12	0	12	100
		2006	ALS	11/03/-11/30	15		5	100	[3	145	0	0	'n	0	m	23
27		2006	ALS	12/01/-12/31	15	19	15	63.2	15	173	0	0	0	0	0	0
50		2007	ALS	10/11-/50/01	15	1	17	100	12	129	0	0	m	0	m	25
57.		2007	ALS	11/02/-11/29	25	7	25	100	23	127	0	0	C	7	ব	17
		2007	ALS	11/30/-12/31	25	7	25	100	17	152	0	0	7	0	21	10
		2007	AE	10/02/-11/01	10	43	10	9.3	10	64	9	0	0	0	9	09
		2003	ALS	11/07/-11/21	30	29	30	93.1	27	137	0	0	51	0	N	7
		2003	ALS	11/07/-11/21	2	23	S	17,4	4	61	0	0	0	0	0	0
		2004	ALS	11/08/-11/28	35	16	35	100	33	142	0	0	10	0	01	30
		2004	ALS	11/08/-11/28	50	21	'n	19	3	10	0	0	N	0	. 11	40
		2004	ALS	10/08/-10/14	S	0	S	•	5	7	0	0	m	0	m	09
		2004	ALS	10/08/-10/14	ы	m	7	2.99	N	9	0	0	2	0	7	100
		2005	ALS	11/07/-11/27	35	18	35	100	35	216	0	0	00	0	00	23
		2005	ALS	11/07/-11/27	n	17	M	23.5	in	90	0	0	m	0	ы	09
		2005	ALS	10/07/-10/13	'n	0	S	7	4	13	0	0	C	0	CI	50
		2005	ALS	10/07/-10/13	7	2	7	0	CI	4	0	0	0	-	_	50
		2006	ALS	11/24/-12/07	35	15	35	100	32	105	0	0	15	~	17	53
		2006	ALS	11/24/-12/07	'n	7	N	42.9	'n	23	0	0	m	0	e	09
		2006	ALS	9/29/-10/05	vi	4	2	100	S	18	0	0	5	0	'n	100
		2006	ALS	9/29/-10/05	CI	-	71	100	71	80	0	0	0	n	2	100
		2007	ALS	11/23/-12/06	35	14	35	100	35	120	0	0	20	7	22	63
		2007	ALS	11/23/-12/06	2	12	'n	41.7	4	00	0	0	m	0	m	75
		2007	ALS	9/28/-10/04	S	3	5	2.99	2	15	0	0	m	0	m	09
		2007	ALS	9/28/-10/04	CI.	-	7	0	-	'n	0	0	-	0	-	100
	DA	2003	ALS	10/10/-10/19	14	7	14	42.9	14	74	0	0	4	0	ব	29
	20	2004	ALS	10/15/-10/21	14	2	4	09	14	82	0	0	n	2	S	36
	DA	2005	ALS	10/14/-10/20	14	m	14	100	14	26	0	0	m	71	'n	36
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27S 27S 27S 2831 2831 2831 2831/32 283

Obj. 2004 2004 2004 2004 2004 2004 2005 2005	CN	DV	2006	ALS	10/20/-10/26	14	2	14	40	12	40	0	0	9	71	∞0	19
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2004 AE 10024-10/14 2 32 6.3 2 6.3 2 6.3 1 0 1 0 2 2004 AE 10022-10328 24 25 6.36 24 61 7 0 7 6 20 2005 AE 10022-1038 2 48 2 6.36 2 6 0 0 0 0 0 2 2005 AE 10071-1007 2 48 2 6 3 1 1 0 1 0 2 0	CN		2004	AE	10/08/-10/14	5	36	S	13.9	'n	20	2	0	m	0	S	100
2004 AE 10724-10728 25 25 63 64 61 7 6 20 2004 AE 10724-10728 4 17 4 118 2 12 0 0 0 0 0 2 2005 AE 10074-1013 2 48 2 42 2 6 0	S		2004	AE	10/08/-10/14	C I	32	7	6.3	CI	3	_	0	_	0	7	100
2004 AE 101224-10128 4 117 4 11,8 2 112 2 0 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2	CN		2004	AE	10/22/-10/28	25	22	25	63.6	24	19	1	0	7	9	20	83
2005 AE 1007/-10/13 2 48 5 89 5 18 1 1 1 1 0 3 3 2005 AE 1007/-10/13 2 48 25 31.1 25 105 6 0 0 0 0 0 0 0 2005 AE 1007/-10/13 2 48 25 31.1 25 105 0 0 0 0 0 0 0 2006 AE 1007/-10/25 4 27 4 0 0 4 22 2 0 0 0 0 0 0 0 2006 AE 1007/-11/02 25 29 25 44.8 25 115 5 0 0 0 0 0 0 0 2006 AE 1007/-11/02 25 29 25 44.8 25 105 2 0 0 0 0 0 0 0 2007 AE 1007/-11/02 4 10 4 10 4 12 3 10 0 0 0 0 0 2007 AE 1007/-11/01 2 5 30 25 44.8 25 105 0 0 0 0 0 0 0 2007 AE 1007/-11/01 2 5 30 25 44.8 25 100 0 0 0 0 0 0 0 2007 AE 1007/-11/02 1 3 3 2 6.1 2 4 2 0 0 0 0 0 0 0 2007 AE 1007/-11/02 1 3 3 2 6.1 2 4 1 1 1 0 0 0 0 0 0 2007 AE 1007/-11/02 1 3 3 2 6.1 2 4 1 1 0 0 0 0 0 0 0 2007 AE 1007/-11/02 1 3 3 2 6.1 2 4 1 1 0 0 0 0 0 0 0 2007 AE 1007/-11/02 1 3 3 7 7 18.2 6 2 0 0 0 0 0 0 0 0 2007 AE 1007/-10/20 7 34 7 18.2 6 2 0 0 0 0 0 0 0 0 0 2007 AE 1007/-10/20 7 34 7 18.2 6 0 0 0 0 0 0 0 0 0 0 2007 AE 1007/-10/20 7 34 7 18.2 6 0 0 0 0 0 0 0 0 0 0 2007 AE 1007/-10/20 7 34 7 18.2 6 0 0 0 0 0 0 0 0 0 0 0 2007 AE 1007/-10/20 2 2 3 3 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0	CN		2004	AE	10/22/-10/28	4	17	4	11.8	CI	12	CI	0	0	0	0	100
2005 AE 10071-10/13 2 48 2 42 2 6 0	CN		2005	AE	10/01/-10/13	2	45	157	8.9	2	130	-	-	-	0	m	09
2005 AE 0/21/-1/027	CN		2005	AE	10/07/-10/13	1	48	71	4.2	CI	9	0	0	0	0	0	0
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2003 ALS 10/03/-10/06 150 590 150 19 146 366 0 0 87 5 92 2004 ALS 10/15/-10/18 150 479 150 26.1 146 366 0 0 87 5 92 2004 ALS 10/14/-10/17 150 444 150 25.9 144 366 0 0 71 15 86 2005 ALS 10/14/-10/17 150 444 150 25.9 144 366 0 0 71 15 86 2005 ALS 10/19/-10/25 160 592 160 21.3 158 419 0 0 48 0 48 0 48 2004 ALS 10/19/-10/22 125 422 125 23.3 125 409 0 0 71 17 2005 ALS 10/21/-10/26 275 419	S	DV	2007	AE	10/19/-10/25	7	30	7	20	7	25	9	0	0	0	9	98
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	6AN/6AS		2005	ALS	10/14/-10/17	635	1466	9E9	37.8	625	1713	0	0	276	20	396	47

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6AN/6AS	2006	ALS	10/20/-10/26	765	1581	762	40.5	739	2170	C	0	365	24	A	
6AN/6AS	2007	ALS	10/19/-10/25	765	1868	761	35	720	2046	0		101	70	195	Z
6AN/6AW	2003	ALS	10/03/-10/06	700	1542	700	36.3	684	1846	0 0	5 0	160	3 5	436	19
72N	2007	ALS	10/12/-10/18	20	29	20	16.4	18	76	0 0	5	1	7	110	NA P
23N	2007	ALS	10/19/-10/25	20	9	20	27.9	000	2 5	0 0	0 0	, 11	> <	- 1	7
27	2003	ALS	10/03/-10/06	100	170	101	33.5	000	270	a c	0 0	- 5	0 0		0 1
27	2004	ALS	10/15/-10/18	100	101	100	200	00	2 7	2 0	0 0	74	n (0	0
27	2005	AIS	10/14/-10/17	100	22.	200	1.70	40 0	243	0	0	33	0	44	4
27	2005	AIS	11/01-/51/01	200	150	001	6.10	86	298	a i	0	29	01	31	32
		3	07/01-107/01	S	001	6	4.67	16	283	0	0	46	9	55	9
Muzzleloader															
48	2003	ALS	10/17/-10/22	250	189	250	75.7	234	1049	0	0	43	C	4	-
4B	2004	ALS	10/22/-10/27	250	207	250	61.8	240	983	0	0	2 15	1 4	1 5	4 6
48	2005	ALS	10/21/-10/26	225	248	225	59.7	213	876	0	0	24	- 1	36	-
48	2006	ALS	10/20/-10/26	175	149	175	62.4	171	711	0	0	40	1 0	40	
48	2007	ALS	10/19/-10/25	175	177	175	63.8	170	069	0	0	44	7	48	ic
6A	2003	ALS	11/07/-11/12	220	248	220	30.2	211	856	0	0	4		48	1 0
6A	2004	ALS	11/12/-11/17	360	346	360	38.7	340	1362	0	0	112	6	121	ir
6A	2005	ALS	11/11/-11/16	300	288	300	41.7	281	1121	0	0	86	17	103	i
6A	2006	ALS	11/17/-11/23	250	328	250	37.8	231	7997	0	0	89	2	70	i m
P9	2007	ALS	11/16/-11/22	325	294	325	37.8	320	1302	0	0	89	12	104	
× (x	2003	ALS	9/26/-10/01	200	232	200	56.9	200	778	0	0	63	5	78	1
× 1	2004	ALS	10/15/-10/21	200	250	200	52.4	192	729	0	0	69	2	84	1 4
∞ (2005	ALS	10/14/-10/20	200	290	200	42.4	190	852	0	0	41	. 0	205	
× (2006	ALS	10/06/-10/12	150	181	150	43.1	139	617	0	0	51	. 6	25	1 11
× (2007	ALS	9/28/-10/04	150	263	150	34.2	144	619	0	0	55	91	7.1	चे च
S	2007	ALS	10/05/-10/11	25	0	25	•	23	85	0	0	10	0	10	A
S	2003	ALS	10/18/-10/23	25	2	10	100	10	40	0	0	0	0	. 0	
S C	2003	ALS	10/18/-10/23	CI	10	2	20	0	0	0	0	0	0	0	
S &	2004	ALS	9/24/-10/01	25	5	25	100	25	120	0	0	10	0	10	4
S C	2004	ALS	9/24/-10/01	S	4	Ŋ	75	S	12	0	0	·	0	. "	9
S CS	2005	ALS	9/23/-9/30	25	-	25	100	22	108	0	0	9	0	9	,
S CS	2005	ALS	9/23/-9/30	S	4	'n	0	S	20	0	0	-	0	-	10
S	2006	ALS	10/06/-10/12	25	0	25	r	20	95	0	0	C	0	0	1 =
S	2006	ALS	10/06/-10/12	5	4	N	100	m	13	0	0	0	0	1 0	. 0
S	2007	ALS	10/02/-10/11	S	m	N	2.99	2	30	0	0	-	0	_	7

CN 2005 AE 923-930 10 49 10 163 10 53 0 53 0 0 3 0 0 0 0 0 0 0 0 0 0 0 0																	
2005 AE 10064-1012 10 31 10 22.3 10 47 3 3 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CN		2005	AE	9/23/-9/30	01	49	10	16.3	01	53	0	0	m	0	£1)	30
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2007 AE 10055-1071 10 24 10 25 10 39 3 0 1 1 2007 AE 10055-1071 3 12 3 25 3 21 0 0 0 0 2007 ALS 9/124-1075 350 205 354 2253 0	CN		2006	AE	10/06/-10/12	7	12	3	25	m	00	0	0	0	0	0	0
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2003 ALS 9/12/-9/25 35G 205 35G 49.3 344 2253 0 0 49 22 2004 ALS 9/17/-9/36 25G 213 25G 48.3 317 2025 0 0 6/3 2 2006 ALS 9/17/-9/36 25G 213 25G 48.3 317 2025 2006 ALS 9/14/-9/27 5G 51 5G 98 5G 308 0 0 10 2 2007 ALS 9/14/-9/27 5G 51 5G 98 5G 308 0 0 10 2 2007 ALS 9/14/-9/27 5G 51 5G 98 5G 308 0 0 0 10 2 2007 ALS 9/14/-9/27 5G 51 5G 98 5G 308 0 0 0 10 2 2008 ALS 9/14/-9/27 5G 64 5G 37.3 47 26G 0 0 0 10 3 2008 ALS 9/14/-9/27 7G 42 7G 65 47 0 0 0 10 3 2009 ALS 9/14/-9/27 3G 64 5G 17/ 15 128 0 0 0 10 3 2007 ALS 9/14/-9/27 3G 13 3G 69.2 27 192 0 0 8 8 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 0 0 0 10 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 2 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 3 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 0 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 0 0 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 0 0 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 98 10 0 0 0 0 0 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 0 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	CN		2007	AE	10/02/-10/11	m	12	m	25	m	17	0	0	0	0	0	0
2003 ALS 9/12/9/25 350 205 350 49.3 344 2253 0 0 49 22 2004 ALS 9/12/9/26 230 213 250 42.3 236 1519 0 0 49 22 2005 ALS 9/12/9/26 170 137 170 27 180 9.8 10 0 0 49 22 2006 ALS 9/12/9/26 150 137 170 27 180 9.8 90 0 0 0 0 40 0	rchery																
2004 ALS 9/17/9/30 250 213 256 42.3 236 1519 0 65 2 2006 ALS 9/17/9/30 235 202 48 317 202 0 0 77 4 2006 ALS 9/14/9/27 50 137 170 58 56 1026 0 0 41 6 2007 ALS 9/14/9/27 50 57 150 98 6 0 0 0 41 6 2 2004 ALS 9/14/9/27 150 57 160 98 36 0	-		2003	ALS	9/12/-9/25	350	205	350	49.3	344	2253	0	0	49	22	71	21
2005 ALS 9/16/9/29 325 202 325 48 317 2022 0 0 77 4 2 2006 ALS 9/12/9/27 50 51 10 27 168 1026 0 0 41 6 5 2 2007 ALS 9/12/9/27 50 51 150 93 148 988 0 0 0 41 6 5 2 2004 ALS 9/12/9/22 150 57 150 93 148 988 0 0 0 10 2 2 2004 ALS 9/12/9/29 50 64 50 37.5 47 260 0 0 10 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1		2004	ALS	9/17/-9/30	250	213	250	42.3	236	1519	0	0	63	CI	65	28
2006 ALS 9/22/-10/05 170 137 170 27 168 1026 0 41 6 2007 ALS 9/14/-9/27 50 51 50 9.8 50 308 0 0 10 2 2004 ALS 9/11/-9/29 50 57 150 98 50 0 0 10 10 2 2004 ALS 9/11/-9/29 50 54 50 34 50 65 406 0 0 10 10 2 2005 ALS 9/14/-9/29 50 34 50 65 406 0 0 10 10 2 2007 ALS 9/14/-9/27 70 42 70 42 70 42 65 406 0 0 11 2 10 11 2 10 10 10 2 2 10 4 2 6 44	1		2005	ALS	9/16/-9/29	325	202	325	48	317	2022	0	0	11	4	81	26
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2003 ALS 9/12/-9/25 150 57 150 93 148 988 0 0 40 0 2004 ALS 9/17/-9/30 50 64 50 37.5 47 260 0 0 10 3 2005 ALS 9/16/-9/29 50 64 50 61.8 50 326 0 0 10 3 2006 ALS 9/16/-9/29 70 42.9 65 406 0 0 10 3 2007 ALS 9/16/-9/29 13 30 69.2 27 192 0 0 14 2 2004 ALS 9/16/-9/29 15 17 15 47.1 15 128 0	2B/2C		2007	ALS	9/14/-9/27	20	51	20	8.6	20	308	0	0	10	17	12	24
2004 ALS 9/17/9730 50 64 50 37.5 47 260 0 0 10 3 2005 ALS 9/16/-9/29 50 34 50 61,8 50 326 0 0 0 10 3 2006 ALS 9/12/-9/29 50 34 50 61,8 50 326 0 0 0 19 2 2007 ALS 9/12/-9/27 70 42 70 42.9 65 427 0 0 1 19 2 2007 ALS 9/12/-9/29 15 3 15 33.3 15 98 0 0 0 2 2006 ALS 9/12/-9/29 15 3 15 33.3 15 98 0 0 0 2 2007 ALS 9/12/-9/27 15 3 15 10 10 0 0 0 2007 ALS 9/12/-9/27 15 24 10 10 15 101 0 0 0 3 2007 ALS 9/12/-9/27 300 224 300 52.9 198 1142 0 0 0 2 2007 ALS 9/12/-9/28 300 224 300 52.9 198 1142 0 0 0 76 2007 ALS 9/12/-9/29 300 224 300 52.9 198 1142 0 0 0 76 2007 ALS 9/12/-9/29 300 202 300 32.9 198 142 0 0 0 76 2007 ALS 9/12/-9/29 300 202 209 32.9 198 104 0 0 0 76 2007 ALS 9/12/-9/29 300 202 209 209 1961 0 0 64 2 2007 ALS 9/12/-9/29 300 202 209 209 198 104 0 0 0 76 2007 ALS 9/12/-9/29 300 202 209 209 198 104 0 0 0 0 0 2007 ALS 9/12/-9/29 300 202 300 32.9 198 104 0 0 0 0 0 2007 ALS 9/12/-9/29 300 202 300 32.9 198 104 0 0 0 0 0 2007 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 0 0 0 0 2007 ALS 9/12/-9/30 50 24 50 37.5 50 336 0 0 0 0 0 2007 ALS 9/12/-9/30 50 24 50 37.5 50 336 0 0 0 0 0 2007 ALS 9/12/-9/30 50 24 50 37.5 50 336 0 0 0 0 0 2007 ALS 9/12/-9/31 50 10 10 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 0 0 2007 ALS 9/12/-9/31 50 24 50 37.5 50 336 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1A/3C		2003	ALS	9/12/-9/25	150	57	150	93	148	988	0	0	40	0	40	27
2005 ALS 9/16/-9/29 50 34 50 61,8 50 326 0 0 6 3 2006 ALS 9/24-10/05 70 40 70 55 65 406 0 0 19 2 2007 ALS 9/14/-9/27 70 42 70 42,9 65 406 0 0 19 2 2007 ALS 9/14/-9/27 70 42 70 42,9 65 406 0 0 14 2 2008 ALS 9/12/-9/25 30 13 15 15 128 0 0 0 6 2006 ALS 9/12/-9/25 15 17 15 128 16 101 0 0 1 0 2007 ALS 9/12/-9/25 300 224 300 50 290 1961 0 62 6 2007 ALS 9/12/-9/25 300 224 300 50 290 1961 0 0 62 6 2007 ALS 9/12/-9/25 300 224 300 50 290 1961 0 0 62 6 2007 ALS 9/12/-9/29 300 224 300 579 294 1969 0 0 76 6 2008 ALS 9/12/-9/29 300 202 300 32.9 198 1142 0 0 78 8 2007 ALS 9/12/-9/29 15 15 17 17 17 17 17 19 19 1961 0 0 62 6 2006 ALS 9/12/-9/29 300 200 32.9 198 1142 0 0 76 6 2006 ALS 9/12/-9/29 300 200 32.9 198 1142 0 0 76 6 2006 ALS 9/12/-9/29 300 202 300 32.9 198 1142 0 0 76 6 2007 ALS 9/12/-9/29 300 202 300 32.9 294 1969 0 0 76 6 2006 ALS 9/12/-9/29 15 15 17 75 100 65 438 0 0 0 0 0 0 2007 ALS 9/14/-9/27 15 15 17 75 100 65 438 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 324 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A/3C		2004	ALS	9/17/-9/30	20	64	20	37.5	47	260	0	0	10	m	n	28
2006 ALS 9/12/-10/05 70 40 70 55 65 406 0 19 2 2007 ALS 9/12/-9/72 70 42 70 42.9 65 427 0 19 14 2 2007 ALS 9/12/-9/72 30 13 30 69.2 77 192 0 0 14 2 2005 ALS 9/12/-9/72 15 17 15 15 100 15 10 0 0 15 2006 ALS 9/12/-9/72 15 22 15 31.8 15 94 0 0 0 2 2007 ALS 9/12/-9/72 300 224 300 50 99 1961 0 0 62 2007 ALS 9/12/-9/72 300 224 300 50 99 1961 0 0 62 2006 ALS 9/12/-9/72 300 224 300 52.9 198 1142 0 0 78 8 2007 ALS 9/12/-9/72 300 224 300 52.9 198 1142 0 0 78 2006 ALS 9/12/-9/72 300 224 300 52.9 198 1142 0 0 78 2006 ALS 9/12/-9/72 16 20 20 20 20 20 20 20 20 20 20 20 20 20	A/3C		2005	ALS	9/16/-9/29	20	34	20	8,19	20	326	0	0	9	m	6	18
2007 ALS 9/14/-9/27 70 42 70 42,9 65 427 0 0 144 2 2003 ALS 9/12/-9/25 30 13 30 69.2 27 192 0 0 14 2 2004 ALS 9/12/-9/29 15 3 15 33.3 15 98 0 0 0 0 2006 ALS 9/12/-9/29 15 3 15 33.3 15 98 0 0 0 0 2006 ALS 9/12/-9/29 15 2 15 13.8 15 94 0 0 0 2 2007 ALS 9/12/-9/25 300 224 300 529 198 1142 0 0 62 6 2007 ALS 9/12/-9/29 300 224 300 57.9 198 1142 0 0 62 6 2006 ALS 9/12/-9/29 300 202 320 329 198 1142 0 0 62 6 2006 ALS 9/12/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2006 ALS 9/12/-9/29 15 152 295 55.9 289 1972 0 0 64 2 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 36 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 0 20 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 0 0 0 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 0 0 0 2008 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 0 0 0 0 2009 ALS 9/12/-9/29 75 17 75 100 65 334 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 334 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 324 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 0 2009 ALS 9/12/-9/21 50 24 50 70.8 50 336 0 0 0 0 0 0 2009 ALS 9/12/-9/31 5 0 7 - 7 7 47 0 0 0 0 0	A/3C		2006	ALS	9/22/-10/05	70	40	70	55	65	406	0	0	19	N	21	32
2003 ALS 9/12/-9/25 30 13 30 69.2 27 192 0 0 8 0 2 2004 ALS 9/17/-9/30 15 17 15 47.1 15 128 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	A/3C		2007	ALS	9/14/-9/27	70	42	70	42.9	65	427	0	0	14	7	16	25
2004 ALS 9/17/-9/30 15 17 15 47.1 15 128 0 0 0 0 0 0 2005 ALS 9/16/-9/29 15 3 15 33.3 15 98 0 0 0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3B		2003	ALS	9/12/-9/25	30	13	30	69.2	27	192	0	0	00	0	00	30
2005 ALS 9/16/-9/29 15 3 15 33.3 15 98 0 0 2 2 2 2006 ALS 9/22/-10/05 15 4 15 100 15 101 0 0 3 0 2007 ALS 9/12/-10/05 15 22 15 31.8 15 94 0 0 2 2 0 2007 ALS 9/12/-9/25 300 224 300 50 290 1961 0 62 6 2004 ALS 9/12/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2005 ALS 9/16/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2006 ALS 9/12/-10/05 295 152 295 55.9 289 1972 0 0 64 2 2007 ALS 9/12/-9/27 80 39 80 17.9 74 392 0 0 76 6 2008 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 36 2 2009 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 76 0 2009 ALS 9/12/-9/25 150 24 50 70.8 50 324 0 0 7 0 2006 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 0 20 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 334 0 0 6 2 2007 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 6 2 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3B		2004	ALS	9/17/-9/30	15	11	15	47.1	15	128	a	0	0	0	0	0
2006 ALS 9/22/-10/05 15 4 15 100 15 101 0 0 3 0 2007 ALS 9/14/-9/27 15 22 15 31.8 15 94 0 0 2 0 2 0 2007 ALS 9/12/-9/25 300 224 300 50 290 1961 0 62 6 2004 ALS 9/12/-9/29 300 224 300 57.9 198 1142 0 0 78 8 2005 ALS 9/16/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2006 ALS 9/12/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2007 ALS 9/14/-9/27 80 39 80 17.9 74 392 0 0 76 6 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 36 2 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2008 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2008 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 0 2 0 2006 ALS 9/12/-9/29 75 17 75 100 65 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 3324 0 0 6 2 2007 ALS 9/14/-9/27 50 24 50 70.8 50 3324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 3324 0 0 0 0 0 0 0 0 0 2007 ALS 9/14/-9/21 50 24 50 70.8 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3B		2005	ALS	9/16/-9/29	15	m	15	33.3	15	86	0	0	CI	21	4	27
2007 ALS 9/14/-9/27 15 22 15 31.8 15 94 0 0 2 0 2003 ALS 9/12/-9/25 300 224 300 50 290 1961 0 0 62 6 2004 ALS 9/12/-9/29 300 210 200 32.9 198 1142 0 0 78 8 2005 ALS 9/16/-9/29 300 202 300 57.9 294 1969 0 0 76 6 2006 ALS 9/22/-10/05 295 152 295 55.9 289 1972 0 0 76 64 2007 ALS 9/14/-9/27 80 39 80 17.9 74 392 0 0 76 64 2003 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2004 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 2 0 2005 ALS 9/14/-9/27 50 24 50 70.8 50 324 0 0 7 0 2006 ALS 9/14/-9/27 50 24 50 70.8 50 336 0 0 6 2 2007 ALS 9/14/-9/27 50 24 50 37.5 50 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 324 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 0 200 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 0 200 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 0 0 0 200 ALS 9/17/-10/14 10 2 10 100 100 20 0 0 0 0	3B		2006	ALS	9/22/-10/05	15	4	15	100	15	101	0	0	m	0	m	30
2003 ALS 9/12/-9/25 300 224 300 50 290 1961 0 62 6 2004 ALS 9/17/-9/30 200 210 200 32.9 198 1142 0 78 8 2005 ALS 9/12/-10/05 295 152 295 55.9 289 1972 0 76 6 2006 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 76 54 2 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 36 2 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 20 0 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 2 0 2005 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 2 0 2006 ALS 9/14/-9/27 50 24 50 70.8 50 324 0 0 7 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 0 0 0	3B		2007	ALS	9/14/-9/27	15	22	15	31.8	15	94	0	0	21	0	~	13
2004 ALS 9/17/-9/30 200 210 200 32.9 198 1142 0 78 8 2005 ALS 9/16/-9/29 300 202 300 57.9 294 1969 0 76 6 2006 ALS 9/22/-10/05 295 152 295 55.9 289 1972 0 76 64 2 2007 ALS 9/14/-9/27 80 39 80 17.9 74 392 0 76 64 2 2003 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 20 0 2006 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 7 0 2007 ALS 9/14/-9/27 50 24 50 70.8 50 324 0 0 7 0 WI 2004 ALS 9/11/-10/14 10 2 10 100 100 10 20 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 20 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 20 0 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 100 10 0 0 0 0	4A		2003	ALS	9/12/-9/25	300	224	300	50	290	1961	0	0	62	9	89	23
2005 ALS 9/16/-9/29 300 202 300 57.9 294 1969 0 76 6 2006 ALS 9/22/-10/05 295 152 295 55.9 289 1972 0 64 2 2007 ALS 9/14/-9/27 80 39 80 17.9 74 392 0 64 2 2003 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 36 2 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 2 0 2005 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 9 0 2006 ALS 9/22/-10/05 50 24 50 70.8 50 324 0 0 7 0 WI 2004 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 6 2 WI 2004 ALS 9/17/-10/14 10 2 10 100 10 20 0 0 0 WI 2004 ALS 10/01/-10/31 5 0 7 - 7 47 0 0 2	4A		2004	ALS	9/17/-9/30	200	210	200	32.9	198	1142	0	0	78	00	98	43
2006 ALS 9/22/-10/05 295 152 295 55.9 289 1972 0 0 64 2 2007 ALS 9/12/-9/27 80 39 80 17.9 74 392 0 0 36 2 2007 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2004 ALS 9/12/-9/29 75 17 75 100 65 438 0 0 2 0 2005 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 9 0 2006 ALS 9/22/-10/05 50 24 50 70.8 50 324 0 0 7 0 WI 2004 ALS 9/11/-9/30 5 1 5 0 0 0 0 0 0 WI 2004 ALS 9/11/-10/14 10 2 10 100 10 20 0 0 0 WI 2004 ALS 10/01/-10/31 5 0 7 - 7 47 0 0 2 0	4A		2005	ALS	9/16/-9/29	300	202	300	57.9	294	6961	0	0	9/	9	82	28
2007 ALS 9/14/-9/27 80 39 80 17.9 74 392 0 0 36 2 2003 ALS 9/12/-9/25 150 41 150 92,7 141 936 0 0 20 0 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 20 0 2005 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 9 0 2006 ALS 9/22/-10/05 50 24 50 70.8 50 324 0 0 7 0 WI 2004 ALS 9/01/-9/30 5 1 5 0 0 0 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 10 20 0 0 0 WI 2004 ALS 10/01/-10/31 5 0 7 - 7 47 0 0 2 0	4A		2006	ALS	9/22/-10/05	295	152	295	55.9	289	1972	0	0	64	N	99	23
2003 ALS 9/12/-9/25 150 41 150 92.7 141 936 0 0 20 0 2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 2 0 2005 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 9 0 2006 ALS 9/22/-10/05 50 24 50 70.8 50 324 0 0 7 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 6 2 WI 2004 ALS 9/01/-9/30 5 1 5 0 0 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 10 20 0 0 WI 2004 ALS 10/01/-10/31 5 0 7 - 7 47 0 0 2 0	4A		2007	ALS	9/14/-9/27	80	39	80	17.9	74	392	0	0	36	7	38	5
2004 ALS 9/17/-9/30 100 34 100 58.8 96 724 0 0 2 0 2005 ALS 9/16/-9/29 75 17 75 100 65 438 0 0 9 0 2006 ALS 9/22/-10/05 50 24 50 70.8 50 324 0 0 7 0 2007 ALS 9/14/-9/27 50 24 50 37.5 50 336 0 0 6 2 WI 2004 ALS 9/01/-9/30 5 1 5 0 0 0 0 0 WI 2004 ALS 9/17/-10/14 10 2 10 100 10 20 0 0 0 WI 2004 ALS 10/01/-10/31 5 0 7 - 7 47 0 0 2 0	48		2003	ALS	9/12/-9/25	150	41	150	7.26	141	936	0	0	20	0	20	14
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4B/5A	WI	2004	ALS	10/14/-11/14	10	0	10		10	09	0	0	0	0	0	a
4B/5A	WI	2005	ALS	9/01/-9/59	'n	3	'n	100	Ŋ	43	0	0	0	0	0	0
4B/5A	WI	2005	ALS	9/16/-10/13	10	0	10		01	58	0	0	0	0	0	0
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4B/5A	W	2005	AE	9/30/-10/31	40	0	5	×	'n	00	0	0	0	0	0	0
5A		2003	ALS	9/12/-9/25	350	207	350	51.7	337	2145	0	0	100	9	106	3
5A		2004	ALS	9/17/-9/30	250	176	250	36.9	241	1591	0	0	82	1	68	37
5A		2005	ALS	9/16/-9/29	300	160	300	65.6	283	1842	0	0	94	Ξ	105	37
5A		2006	ALS	9/22/-10/05	220	166	220	48.2	216	1354	0	0	72	21	74	34
5A		2007	ALS	9/14/-9/27	200	158	200	35.4	195	1332	0	0	09	71	62	32
SBN		2003	ALS	9/12/-9/25	300	54	300	100	292	2085	0	0	33	4	37	13
SBN		2004	ALS	9/17/-9/30	175	99	175	9.69	163	1126	0	0	25	17	27	17
SBN		2005	ALS	9/16/-9/29	250	66	250	2.69	240	1691	0	0	47	4	51	21
SBN		2006	ALS	9/22/-10/05	200	71	200	74.6	961	1301	0	0	46	11	48	24
SBN		2007	ALS	9/14/-9/27	100	55	100	38.2	86	774	0	0	21	0	21	21
5BS		2003	ALS	9/12/-9/25	375	304	375	43.8	367	2572	0	0	111	00	119	32
SBS		2004	ALS	9/17/-9/30	250	246	250	29.3	250	1622	0	0	92	7	94	38
SBS		2005	ALS	9/16/-9/29	350	217	350	44.7	343	2161	0	0	137	1	144	42
SBS		2006	ALS	9/22/-10/05	360	291	359	33.7	348	2290	0	0	102	6	111	32
SBS		2007	ALS	9/14/-9/27	200	192	200	27.6	198	1337	0	0	48	4	52	36
6A/19A/21	^^	2007	ALSS	9/14/-9/27	30	0	30	ā	28	173	0	0	N	N	4	14
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6A/19A/21	^^	2006	ALS	9/22/-10/05	20	0	20		17	94	0	0	0	m	E	90
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6A/19A/21	1	2007	AE	9/14/-9/27	15	91	15	43.8	15	113	4	0	4	0	00	53
6AN		2003	ALS	9/12/-9/25	400	246	400	67.5	398	2708	0	0	63	1	20	18
6AN		2004	ALS	9/17/-9/30	240	187	240	49.7	236	1484	0	0	38	4	42	18
6AN		2005	ALS	9/16/-9/29	390	183	390	62.8	371	2359	0	0	107	4	111	30
6AN		2006	ALS	9/22/-10/05	450	227	450	61.2	438	2880	0	0	66	CI	101	23

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199	360	250	100	750	201	151	2 4	מכן	27	00.	000	20.5	200	001	100	95	240	175	235	150	75	160	100	250	200	100	20	20	125	25.	100	100	94	72	80	80	80	
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9/14/-9/27	9/12/-9/25	9/17/-9/30	9/16/-9/29	9/22/-10/05	75/6-/41/6	9/12/-9/25	9/17/-9/30	62/6-/91/6	9/22/-10/05	9/14/-9/27	56/6-/61/6	9/17/-9/30	0/16/0/20	80/01-/CC/B	CO/01-/22/2	17/6-141/6	57/6-121/6	9/11/1-9/30	9/16/-9/29	9/22/-10/05	9/14/-9/27	9/12/-9/25	9/17/-9/30	9/16/-9/29	9/22/-10/05	9/14/-9/27	9/22/-10/05	9/14/-9/27	9/12/-9/25	9/17/-9/30	00/0/21/0	2016-10116	2/22/-10/05	9/14/-9/27	9/12/-9/25	9/17/-9/30	0/01/-10/14	
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20 20	5 8	20	3	S	CN	S	S	CN	

BE = Early Bull, B = Bull, ALS = Antlerless, AE = Any Elk, CN = Camp Navajo, CH = CHAMP Hunt, DV = Disabled Veteran

Marshall Lake, MM = Melatone Mesa, MZ = Mazatzal, RV = Round Valley, SM = East Sunset/West Sunset/Meteor Crater, TT= Twin Arrows/Two Guns/Grapevine, VV = Verde Valley, WI = Winslow, WS (Unit 5A) = West Sunset, Herd-Units: CC= Canyon Creek, ES (Unit 1) = Escudilla, GV = Grapevine, HM = Hutch Mtn., M=Martinez, ML = WS (17/20A/20C) = Williamson Valley/Skull Valley/Kirkland Junction.

APPENDIX B

AGE AND GENDER DISTRIBUTION FOR ANTLERLESS ELK HUNTERS (hunters issued hunt permit-tags), 2008

AGE AND GENDER DISTRIBUTION FOR ANTLERLESS ELK HUNTERS

(hunters issued hunt permit-tags), 2008

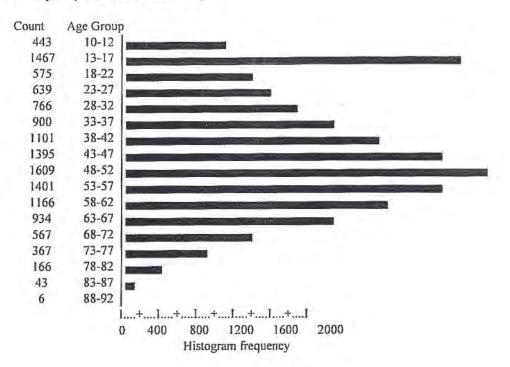
SEX		Valid	Cum		
Value Label	Value	Frequency	Percent	Percent	Percent
	UNKNOWN	1287	9.5	9.5	9.5
	FEMALE	1603	11.8	11.8	21.3
	MALE	10655	78.7	78.7	100.0
	Total	13545	100.0	100.0	100.0
		13545	100.0	100.0	100.0

AGE (male,	femal	e and	unknowns)	į

AGE (maie, ien		- Valid	Cum		
Value Label	Value -	Frequency	Percent	Percent	Percent
	10	54	0.4	0.4	0.4
	11	163	1.2	1.2	1.6
	12	226	1.7	1.7	3.3
	13	260	1.9	1.9	5.2
	14	325	2.4	2.4	7.6
	15	313	2,3	2.3	9.9
	16	317	2.3	2.3	12.2
	17	252	1.9	1.9	14.1
	18	148	1.1	1.1	15.2
	19	110	0.8	0.8	16.0
	20	107	0.8	0.8	16.8
	21	102	0.8	0.8	17.5
	22	108	0.8	0.8	18.3
	23	124	0.9	0.9	19.3
	24	105	0.8	0.8	20.0
	25	120	0.9	0.9	20.9
	26	139	1.0	1.0	21.9
	27	151	1.1	1.1	23.1
	28	163	1.2	1.2	24.3
	29	135	1.0	1.0	25.3
	30	161	1.2	1.2	26.5
	31	151	1.1	1.1	27.6
	32	156	1.2	1.2	28.7
	33	173	1.3	1.3	30.0
	34	174	1.3	1.3	31.3
	35	180	1.3	1.3	32.6
	36	184	1.4	1.4	34.0
	37	189	1.4	1.4	35.4
	38	207	1.5	1.5	36.9
	39	226	1.7	1.7	38.6
	40	219	1.6	1.6	40.2

55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 87 88 87 88 88 87 88 88	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30 15 10	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.6 1.0 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.6 1.7 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.0 0.0	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7 99.8 99.9 100.0 100.0
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 88 88 88 88 88 88 88 88	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30 15 10 10 11 8	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.4 0.2 0.2 0.2 0.1 0.1	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.1 0.1	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7 99.9 99.9
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30 15 10 10 11 8	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.7 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.1 0.1 0.1 0.1	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1 0.1 0.1	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 88 88 88 88 88 88 88 88	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30 15 10 10	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1	1.8 1.5 1.3 1.5 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.1 0.1 0.1 0.1	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30 15	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.4 0.2	1.8 1.5 1.3 1.5 1.5 1.5 1.6 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.1 0.1	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.4 0.3 0.2 0.2 0.1	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.3 0.2 0.2	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6 99.7
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.4 0.2 0.2	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.3	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5 99.6
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30 30	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.4 0.3 0.2	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3 0.2 0.2	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1 99.3 99.5
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53 38 30	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4 0.3	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55 53	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4 0.4	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4 98.8 99.1
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56 55	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4 0.4	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71 56	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4	1.8 1.5 1.3 1.5 1.5 1.5 1.0 1.0 0.7 0.7 0.7 0.7 0.7 0.6 0.7 0.5 0.4	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0 98.4
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	245 200 176 197 202 197 162 134 142 96 101 94 84 101 71	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7 0.5	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7 0.6 0.7	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1 97.6 98.0
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76	245 200 176 197 202 197 162 134 142 96 101 94 84 101	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7 0.7	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	245 200 176 197 202 197 162 134 142 96 101 94 84	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3 97.1
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	245 200 176 197 202 197 162 134 142 96 101 94	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7 0.7	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7 96.3
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	245 200 176 197 202 197 162 134 142 96 101	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0 0.7 0.7	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3 95.0 95.7
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	245 200 176 197 202 197 162 134 142 96	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3
56 57 58 59 60 61 62 63 64 65 66 67 68 69	245 200 176 197 202 197 162 134 142 96	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0 1.0	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6 94.3
56 57 58 59 60 61 62 63 64 65 66 67 68	245 200 176 197 202 197 162 134	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0	1.8 1.5 1.3 1.5 1.5 1.5 1.2 1.0	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5 93.6
56 57 58 59 60 61 62 63 64 65 66	245 200 176 197 202 197 162 134	1.8 1.5 1.3 1.5 1.5 1.5 1.5	1.8 1.5 1.3 1.5 1.5 1.5 1.2	83.1 84.6 85.9 87.4 88.9 90.3 91.5 92.5
56 57 58 59 60 61 62 63 64 65 66	245 200 176 197 202 197 162	1.8 1.5 1.3 1.5 1.5 1.5	1.8 1.5 1.3 1.5 1.5 1.5	83.1 84.6 85.9 87.4 88.9 90.3 91.5
56 57 58 59 60 61 62 63 64 65	245 200 176 197 202 197	1.8 1.5 1.3 1.5 1.5	1.8 1.5 1.3 1.5 1.5	83.1 84.6 85.9 87.4 88.9 90.3
56 57 58 59 60 61 62 63 64	245 200 176 197 202	1.8 1.5 1.3 1.5	1.8 1.5 1.3 1.5	83.1 84.6 85.9 87.4 88.9
56 57 58 59 60 61 62 63 64	245 200 176 197	1.8 1.5 1.3 1.5	1.8 1.5 1.3 1.5	83.1 84.6 85.9 87.4
56 57 58 59 60 61 62 63	245 200 176	1.8 1.5 1.3	1.8 1.5 1.3	83.1 84.6 85.9
56 57 58 59 60 61 62	245 200	1.8 1.5	1.8 1.5	83.1 84.6
56 57 58 59 60 61	245	1.8	1.8	83.1
56 57 58 59 60				
56 57 58 59				813
56 57 58	235	1.7	1.8	79.6 81.3
56 57	245	1.8	1.8	77.8
56	241	1.8	1.8	76.0
	288	2.1	2.1	73.9
33	246	1.8	1.8	72.1
	298	2.1	2.1	69.9
54	283	2.1	2.1	67.8
53	286	2.1	2.3	65.7
52	313	2.4 2.3	2.4	63.4
51	319	2.4	2.4	61.0
50	307 325	2.3	2.3	58.6
49	345	2.5	2.5	56.3
48	334	2.5	2.5	53.8
47	269	2.0	2.0	51.3
46	292	2.2	2.2	49.3
45	251	1.9	1.9	47.2
44	249	1.8	1.8	45.3
42 43	225	1.7	1.7	43.5
41	224	1.7	1.7	41.8

AGE (male, female and unknowns)



AGE (male only)

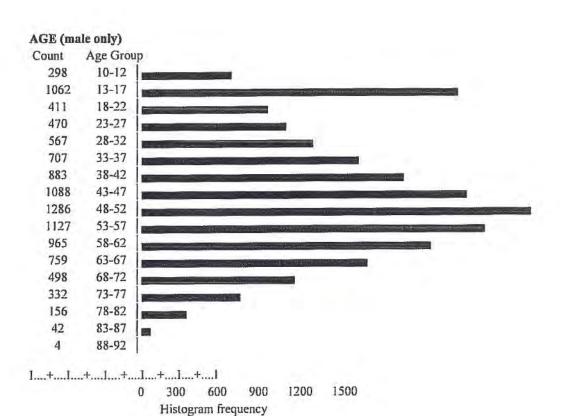
		Valid	Cum		
Value Label	Value	Frequency	Percent	Percent	Percent
	10	35	0.3	0.3	0.3
	11	101	0.9	0.9	1.3
	12	162	1.5	1.5	2.8
	13	188	1.8	1.8	4.6
	14	234	2.2	2.2	6.8
	15	218	2.0	2.0	8.8
	16	228	2.1	2.1	10.9
	17	194	1.8	1.8	12.8
	18	110	1.0	1.0	13.8
	19	79	0.7	0.7	14.5
X-0	20	82	0.8	0.8	15.3
	21	72	0.7	0.7	16.0
	22	68	0.6	0.6	16.6
	23	90	0.8	0.8	17.5
	24	79	0.7	0.7	18.2
	25	93	0.9	0.9	19.1
	26	99	0.9	0.9	20.0
	27	109	1.0	1.0	21.0
	28	116	1.1	1.1	22.1
	29	108	1.0	1.0	23.1
	30	119	1.1	1.1	24.3
	31	111	1.0	1.0	25.3
	32	113	1.1	1.1	26.4
	33	140	1.3	1.3	27.7
	34	142	1.3	1.3	29.0

35	142	1.3	1.3	30.3
36	139	1.3	1.3	31.6
37	144	1.4	1.4	33.0
38	160	1.5	1.5	34.5
39	185	1.7	1.7	36.2
40	181	1.7	1.7	37.9
41	178	1.7	1.7	39.6
42	179	1.7	1.7	41.3
43	194	1.8	1.8	43.1
44	199	1.9	1.9	45.0
45	223	2.1	2.1	47.1
46	214	2.0	2.0	49.1
47	258	2.4	2.4	51.5
48	261	2.4	2.4	53.9
49	250	2.3	2.3	56.3
50	259	2.4	2.4	58.7
51	266	2.5	2.5	61.2
52	250	2.3	2.3	63.6
53	230	2.2	2.2	65.7
54	233	2.2	2.2	67.9
55	233	2.2	2.2	70.1
56	194	1.8	1.8	71.9
57	237	2.2	2.2	74.1
58	201	1.9	1.9	76.0

AGE (male only)

		Valid	Cum		
Value Label	Value	Frequency	Percent	Percent	Percent
	59	193	1.8	1.8	77.8
	60	200	1.9	1.9	79.7
	61	202	1.9	1.9	81.6
	62	169	1.6	1.6	83.2
	63	140	1.3	1.3	84.5
	64	167	1.6	1.6	86.1
	65	170	1.6	1.6	87.7
	66	155	1.5	1.5	89.1
	67	127	1.2	1.2	90.3
	68	118	1.1	1.1	91.4
	69	116	1.1	1.1	92.5
	70	83	0.8	0.8	93.3
	71	93	0.9	0.9	94.2
	72	88	0.8	0.8	95.0
	73	77	0.7	0.7	95.7
	74	90	0.8	0.8	96.6

Total	10655	100.0	100.0	100.0
91	1	0.0	0.0	100.0
88	3	0.0	0.0	100.0
87	4	0.0	0.0	100.0
86	7	0.1	0.1	99.9
85	11	0.1	0.1	99.9
84	10	0.1	0.1	99.8
83	10	0.1	0.1	99.7
82	15	0.1	0.1	99.6
81	28	0.3	0.3	99.4
80	28	0.3	0.3	99.2
79	37	0.3	0.3	98.9
78	48	0.5	0.5	98.6
77	50	0.5	0.5	98.1
76	53	0.5	0.5	97.6
75	62	0.6	0.6	97.1



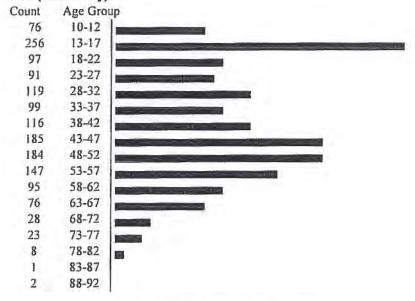
ú	ife		1e	on	(y)
л	180	ma	Sec.	25.00	A. 4

Value Label

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58	23	1.4	1.4	86.9
59	20	1.2	1.2	88.1
60	17	1.1	1.1	89.2
61	20	1.2	1.2	90.5
62	15	0.9	0.9	91.4
63	16	1.0	1.0	92.4
64	15	0.9	0.9	93.3
65	15	0.9	0.9	94.3
66	19	1.2	1.2	95.4
67	11	0.7	0.7	96.1
68	5	0.3	0.3	96.4
69	7	0.4	0.4	96.9
70	6	0.4	0.4	97.3
71	6	0.4	0.4	97.6
72	4	0.2	0.2	97.9
73	.5	0.3	0.3	98.2
74	7	0.4	0.4	98.6
75	6	0.4	0.4	99.0
76	2	0.1	0.1	99.1
77	3	0.2	0.2	99.3
78	3	0.2	0.2	99.5
79	1	0.1	0.1	99.6
80	2	0.1	0.1	99.7
81	2	0.1	0.1	99.8
86	1	0.1	0.1	99.9
91	2	0.1	0.1	100.0
Total	1603	100.0	100.0	100.0

AGE (female only)



THE STATE OF ARIZONA

GAME AND FISH DEPARTMENT

5000 W. CAREFREE HIGHWAY PHOENIX, AZ 85086-5000 (602) 942-3000 * WWW.AZGFD.GOV

REGION #, 3500 S. LAKE MARY ROAD, FLAGSTAFF, AZ 86001

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DEPUTY DIRECTORS

GARY R. HOVATTER ROBERT D. BROSCHEID



November 2, 2009

Micah Grondin Kaibab National Forest Williams Ranger District 742 S Clover Road Williams, AZ 86046

Dear Mr. Grondin,

Per the Kaibab National Forest's request, the Arizona Game and Fish Department (Department) estimated the number of hunter harvested elk, mule deer and pronghorn retrieved using a motorized method on the Williams District of the Kaibab National Forest. The Department used 2008 harvest data for Game Management Units (GMU) 7W, 8 and 10. This is the most current data available at this time.

It is important to note that these MBGRs are currently occurring by mostly 1 trip with a vehicle, typically an ATV, with very little to no evidence that it occurred.

Tables below: Estimated number of motorized big game (clk, mule deer and Pronghorn) retrievals occurring annually on the Williams District of the Kaibab National Forest by Game Management Unit for 2008.

Game Management Unit	Elk harvested in 2008	Estimated proportion of elk harvested on the Kaibab National Forest	Estimated proportion of elk retrieved by motor vehicle	Estimated number of motorized elk retrievals
7W	452	0.67	0.9	273
8	419	0.85	0.9	321
10	564	0.20	0.9	102
Total	1435	9	*	696

Game Management Unit	Mule deer harvested in 2008	Estimated proportion of mule deer harvested on the Kaibab National Forest	Estimated proportion of mule deer retrieved by motor vehicle	Estimated number of motorized mule deer retrievals
7	208	0.35	0.9	66
8	86	0.75	0.9	58
10	132	0.09	0.9	Section 4
Total	426	-	*	135
Game Management Unit	Pronghorn harvested in 2008	Estimated proportion of pronghorn harvested on the Kaibab National Forest	Estimated proportion of pronghorn retrieved by motor vehicle	Estimated number of motorized pronghorn retrievals
7	44	0.15	0.9	6
8	23	0.5	0.9	10
10	63	0.15	0.9	9
Total	130	4	-	25

It is estimated that currently 696 of the 1435 legally harvested elk in GMU 7W, 8 and 10 are retrieved using a motor vehicle each year on the Kaibab National Forest. A high percentage of those elk are antierless elk. The Department uses antierless elk hunts to manage the overall number of elk within a GMU and on the Kaibab National Forest. It is predicted that elimination of MBGR will greatly reduce the number of antierless elk harvested, making the management of the elk population more difficult. An interesting note is that 60% of the elk are harvested in November and December.

The Department appreciates the opportunity to work with the Williams District of the Kaibab National Forest.

Sincerely,

Larry Phoenix, Field Supervisor

Flagstaff Region

3500 S. Lake Mary Rd.

Flagstaff, AZ 86001

928-774-7901

Iphoenix@azgfd.gov

cc:Ron Sieg, Regional Supervisor Sarah Reif, Habitat Program Manager