Dear Regional Advisory Council members,

The Mountain Lion Foundation asks that you consider the following concerns raised by the 2018-19 Cougar Permit Recommendations put forth by the Utah Division of Wildlife Resources for mountain lion (Puma concolor), also known as cougar hunting in Utah.

Trophy hunting is the greatest source of mortality for mountain lions throughout the majority of their range in the United States. Conservation biologists have established that the practice of trophy hunting is destructive and unnecessary as it profoundly disrupts a population’s social structure. Hunting mountain lions results in additive mortality – rates that far exceed what would happen in nature – and can lead to population instability and decline, as well as an increase in conflicts with humans and domestic animals.

In 2017, mountain lion population estimates in Utah ranged from 1900 – 4000. Hunters were reported to have killed 456 total mountain lions during the 2017-18 hunting season. UDWR biologists have recommended increasing the number of permits available to hunters from 581 to 653 for the 2018-19 hunting season. Given the previous years’ population estimate, factoring in the number of adult and sub-adults that were killed by hunters, and excluding any dependent kittens that likely succumbed to starvation after their mothers were killed, the proposed increase would far exceed the sustainable threshold of 12-14% of the population established by researchers.

The Foundation, which is strongly opposed to the proposed increase, respectfully requests that the RAC members reject the recommended increase and, instead, reduce the quota to the sustainable limit established by peer-reviewed, scientific studies. The Foundation asks that the limit be reduced to 10% or less than that of the known population to account for additional human-caused mortality including vehicle strike, incidental snaring or trapping, poaching, public safety removal, orphaning and so on. Additionally, we request that the use of hounds to pursue mountain lions no longer be permitted as this practice is not ethical and is not considered to be fair chase.

The Foundation requests these actions for the reasons outlined below:

1. **The quota should be reduced to 10% of the known population to account for any additional human-caused mortality.**

In order to sustain viable populations of mountain lions, prevent human-wildlife conflict and avoid compromising the long-term viability by failing to account for all human-caused sources of mortality, hunting of adult lion populations should not exceed the intrinsic growth rate of the population of interest. The intrinsic growth rate for mountain lion populations has been established by researchers to be between 15-17%. Setting human-caused mortality limits at
10% or less of the adult population facilitates the maintenance of home ranges and social stability, reducing the likelihood of increased conflict with humans and population decline.xviii

Additionally, trophy hunting of mountain lions leads to an increase in kitten mortality in heavily hunted populationsxvii, as is the case in Utah already. Killing an adult female with kittens results in the death of her dependent young by dehydration, malnutrition, predation and exposure; even those that are at least six months oldxvi. This impacts a population’s ability to recruit new members if too many adult females are removed, making the population less resilient to hunting and other causes of mortalityxv; both human and natural.

As such, we ask that the quota in Utah be reduced to 10% or less of the total adult and subadult population to account for additional human-cause mortality and that hunt units be closed immediately once the limit has been reached to avoid overharvesting and to maintain healthy, stable lion populations.

2. **Killing mountain lions is unnecessary and results in an increase in conflicts with humans and domestic animals.**

Studies have shown that mountain lion populations are self-regulating and that killing established adult lions may actually lead to increased conflict with humans as a result of the disruption of mountain lion social structure and increased immigration of dispersing individuals.xiii Mountain lions occur at low densities relative to their primary prey.xiii In order to survive, their numbers are self-regulating by staying at a smaller population size relative to their prey’s biomass or they risk starvation.xiv In other words, when prey populations decline, so do mountain lion populations. Because of these predator-prey dynamics, mountain lion populations do not need to be managed by humans.

When a dominant adult is removed from its territory, younger dispersing males seeking territories of their own will move into the unoccupied area. This results in a younger overall age structure, which increases the likelihood of conflict with humans.xv Conflicts with mountain lions are exceedingly rare, but overhunting will disrupt resident populations, eventually leading to an increase in conflicts with people, pets and livestock.

A study conducted at Washington State University showed that, as wildlife officials increased quotas and lengthened hunting seasons, complaints about conflict with mountain lions increased rather than decreased. The heavy hunting pressure resulted in a higher ratio of younger males in the population as a result of immigration and emigration.xvii Contrary to popular belief, killing mountain lions results in an increase in complaints and livestock depredation due to disruption of their social structure.xvii

To ensure healthy social structures and territorial behavior, mountain lion populations should not be hunted for trophies or recreation. In Utah, mountain lion quotas should be reduced; not increased. Doing such will ensure stability within the state’s mountain lion populations, as well as a decrease in conflicts with humans and domestic animals.

3. **Using hounds to pursue mountain lions is unethical and is not considered to be fair chase.**

Hounding is an inhumane and outdated sport that has been banned in two-thirds of the United States. Hounding poses significant risk to the hounds as well as to young wildlife, including dependent kittens and cubs, who may be attacked and killed by hounds.xviii Hounds also disturb or kill non-target wildlife and trespass onto private lands.xix This practice is not fair chase and is highly controversial, even among hunters.xx

Fair chase hunting is based upon the premise of giving the animal an equal opportunity to escape from the hunter.xix Using hounds, especially those equipped with GPS collars, provides an unfair advantage to hunters.

Many proponents of hound hunting claim that hunters can be more selective using this technique. Since hunters can get so close to a treed animal, hound hunting advocates assert that hunters can determine the sex, size, and general age of an animal before determining whether or not they are permitted to harvest that individual. Knowing the sex and other demographic status of the individual being hunted could be helpful in maintaining a viable population. A review of 30 years of records from game managers throughout the western United States found that, although technically feasible, most hunters could not tell the size and sex of an animal up a tree. Hunters had roughly 50% accuracy when determining sex; the same as if they had determined the sex with a coin toss.
To summarize, we are asking that the RAC members reject the recommended quota increase as it could jeopardize the health and stability of Utah’s mountain lion population. Instead, we request that the limit be reduced to 10% or less of the total adult and sub-adult population. Doing so would be more in line with current research and will ensure that Utah’s mountain lion populations are better protected for Utah’s consumptive and non-consumptive wildlife stakeholders. We are also asking that hounds are not permitted at any time to aid trophy hunters in their pursuit of mountain lions. The use of hounds is inhumane, does not constitute as fair chase and offers hunters an unfair advantage.

We would like to remind the RAC members that the majority of Utahns value mountain lions as an important part of their heritage and would prefer not to see them hunted to appease a handful of consumptive users.xxii

Thank you for your consideration. Please make this comment letter a part of the official record regarding this decision.

Respectfully,

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Questions or requests regarding this comment letter may be directed to:
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REFERENCES


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1 Cougar Management Guidelines (2005)
2Batavia et al. (2018)
3Vucetich et al. (2005), Eberhardt et al. (2007), Darimont et al. (2015)
4Creel and Rotella (2010), Ausband et al. (2015), Darimont et al. (2015)
5Maletzke et al. (2014)
6Beausoleil et al. (2013)
7Robinson & DeSimone (2011)
8Maletzke et al. (2014)
9Stoner et al. (2006), Wielgus et al. (2013)
10Stoner et al. (2006)
11Anderson and Lindzey (2005)
12Teichman et al. (2016)
xiii Stoner et al. (2006)
xiv Wallach et al. (2015)
xv Cooley et al. (2009)
xvi Tiechman et al. (2016)
xvii Peeble et al. (2013)
xviii Lindzey et al. (1992), Logan and Sweanor (2001), Elbroch et al. (2013)
xix Hristienko and McDonald (2007)
x xi Posewitz (1994)
x xii Teel et al. (2002)