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COMMUNICATION

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Assessing spatio-temporal patterns of human-leopard interactions based on media reports in northwestern India

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Abstract: Large carnivores in human-use areas make for sensational print media content. We used media reports to examine human-leopard interactions in Rajasthan, India. We extracted news reports on leopard-related incidents from January 2016 to December 2018. Incidents (n= 338) were categorized, mapped, and analysed to understand their nature and extent. We found leopard-related news from 26 of 33 districts; a majority of these were in the eastern region of the State. Most of the reported interactions appeared to be non-negative, despite losses to both leopards and people. Our results provide a synthesis of spatio-temporal patterns of leopard-related incidents, which could help wildlife managers in better addressing negative interactions. The study also demonstrates how news reports could be useful for examining human-wildlife interactions across large spatial scales.

Keywords: Carnivores, conflict, conservation, human-wildlife interactions, management, Rajasthan.

Hindi: बड़े मांसाहारी जानवर जो मानव-बहुल क्षेत्रों में रहते हैं, आमतौर पर सनसनीखेज समाचार के रूप में अधिक ध्यान आकर्षित करते हैं। हम ने भारत के राजस्थान राज्य में मानव-तेंदुए के संबंध एवं परस्पर अंतर्क्रिया की जांच के लिए मीडिया रिपोर्टों का उपयोग किया। हम ने जनवरी 2016 से दिसंबर 2018 तक तेंदुए से संबंधित घटनाओं पर रिपोर्टों को निकाला। उनकी प्रकार और गुण को समझने के लिए घटनाएं (338) वर्गीकृत, नक्शा की गईं और उनका विश्लेषण किया। राजस्थान के 33 जिलों में से 26 से तेंदुए से संबंधित समाचार पाए गए, जिनमें से अधिकांश राज्य के पूर्वी भाग में थे। तेंदुए और लोगों को नुकसान होने के बावजूद, अधिकांश सूचित मानव-तेंदुए के बीच संबंध गैर-नकारात्मक दिखाई दिए। हमारे परिणाम तेंदुए से संबंधित घटनाओं के प्रतिरूप का संश्लेषण प्रदान करते हैं, जो नकारात्मक अंतर्क्रिया को संबोधित करने में वन विभाग और वन्यजीव अधिकारियों की मदद कर सकते हैं। अध्ययन में यह भी दिखाया गया है कि बड़े स्थानिक पैमाने पर मानव-वन्यजीवों के संबंध की जांच के लिए मीडिया रिपोर्ट कैसे उपयोगी हो सकती है।

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Author contributions: VA and KC conceived the idea, KC compiled the data, all authors critically evaluated the data, KC and AS performed the analyses. All authors contributed towards writing the manuscript.

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INTRODUCTION

Conserving wildlife while simultaneously balancing human welfare presents several challenges (Peterson et al. 2010), especially when large, potentially dangerous wildlife share spaces with humans (Treves & Karanth 2003). Besides ecological considerations, conserving such wildlife species requires an understanding of social contexts such as local politics, culture, religion, and ethnic attributes (Dickman 2010; Chapron & López-Bao 2014). Large carnivores are generally wide-ranging, and many species live in human-dominated landscapes (Ripple et al. 2014). Predators like Coyotes *Canis latrans* in Canada, Tibetan Black Bears *Ursus thibetanus* in Japan, Grey Wolves *Canis lupus* in parts of North America & Europe, Jaguars *Panthera onca* & Pumas *Puma concolor* in South America, and several carnivore species in Africa have been documented to share spaces with humans (Vynne et al. 2011; Alexander & Quinn 2012; Sakurai et al. 2013).

'Shared spaces' by their very nature entail some amount of negative interactions between humans and carnivores (Peterson et al. 2010). When these negative interactions intensify, they transform and perpetuate as negative attitudes, especially when people perceive that state agencies or managers prioritise wildlife over human safety and wellbeing (Madden 2004). Historically, conservation policies across countries and regions have approached the issue by considering carnivores and their habitats, and humans to be disparate entities with little to no overlap (Athreya et al. 2013; Chapron et al. 2014). But over time, studies have quelled this notion and provided empirical evidence for an evolving concept of human-carnivore associations that demonstrate the fluid nature of the dimensions they share (Ghosal et al. 2013; Athreya et al. 2015; Dhee et al. 2019).

Three of the four large felid species in India—the Asiatic Lion *Panthera leo persica*, Tiger *Panthera tigris*, and the Common Leopard *Panthera pardus*—share space with high densities of humans and livestock (Banerjee et al. 2013; Joshi et al. 2013; Athreya et al. 2015). Among them, leopards show the highest overlap with human-use areas in the country (Karanth et al. 2013; Athreya et al. 2015; Kshetry et al. 2017). Leopards are highly adaptable, wide-ranging predators occurring in a variety of landscapes, from forested protected areas to densely human-populated urban centres (Jacobson et al. 2016). Their body size, hunting strategies and highly eclectic dietary preferences allow them to thrive on a broad spectrum of prey species (wild and domestic). They can potentially live in human-dominated landscapes

with relatively low levels of damage to human life and property under certain conditions (Athreya et al. 2013, 2016; Kshetry et al. 2018; Puri et al. 2020). Their populations, however, continue to dwindle due to habitat loss, direct persecution or illegal trade of body parts across the distribution range; the IUCN Red List therefore categorizes them as Vulnerable (Stein et al. 2011). A combination of (a) limited knowledge about their interactions with humans, (b) absence of viable mitigation strategies to counter negative interactions in shared landscapes, and (c) consequences from damages caused to people and livestock (Stein et al. 2011) create conservation concerns, necessitating the exploration of approaches to foster human-leopard co-existence in human-dominated landscapes.

Print media holds immense power and clout in creating and sustaining narratives based on how it represents human-leopard interactions in human-dominated areas (Crown & Doubleday 2017). Previously, studies have addressed this by assessing the type, nature and tone of content communicated through the media (Bhatia et al. 2013; Hathaway et al. 2017) and asserted that issues related to large carnivores are more 'worthy' of a news report if the incidence represents an overall negative view. This can potentially create a bias against wildlife and undermine conservation goals to an extent (Bornatowski et al. 2019). The public who consume such content get an incomplete understanding of the actual gravity of the incident(s) and this can either attenuate or amplify their perception of risk, leading to diminished human acceptance of wildlife (Knopff et al. 2016). Other studies have used media reports to map the distribution of the leopards and patterns of depredation using spatial models, while also assessing social and management factors associated with negative interactions (Athreya et al. 2015). Therefore, media is not only a source of information but can also provide a broader view of human-leopard interactions and can potentially inform conflict mitigation strategies.

In this study, we examined human-leopard interactions reported in the media from the state of Rajasthan in northwestern India. The State's local print media extensively covers leopard-related incidents, and has a considerably wide readership. We used media records to assess spatial and temporal patterns of leopard-related incidents in the State, and then analysed negative interactions in terms of losses or damages faced by leopards and people. Finally, we examined current management strategies that involve leopard captures and translocations, providing an analysis of the locations of physical captures, the reasons behind the captures,

and the relevance of these interventions for leopard conservation in human-use areas.

MATERIAL AND METHODS

Ethics Statement

The study was implemented using archived reports from print media and some forest department records. The study does not contain personal information of any human subjects. Approval of animal care and use committee and of human ethics committee was not required.

Study area

The State of Rajasthan in northwestern India covers an area of around 350,000 km² (10.4% of the country's total geographical area; Fig. 1), and supports a population of 68,900,000 people with a density of ~200 humans per km². The literacy rate in the State stands at 66.11%, with 75% of the population—mostly agricultural and pastoral communities—residing in rural areas (Census of India 2011). The State has 33 districts (administrative units) and 241 sub-districts (locally called 'tehsils'). Major geographic features of the State include the Thar Desert in the west, and the Aravalli Hill range that spans

more than 850 km from the south to the northeastern parts. The vegetation in the State is diverse, ranging from desert dunes, scrub, deciduous forests, forest plantations, saline or swampy grasslands with a mosaic of seasonal agriculture belts, urban settlements, and barren lands. The region is largely arid/semi-arid, with low rainfall throughout the year (100–1,000 mm).

The print media in the State frequently covers leopard-related incidents. The types of reports vary from leopard sightings outside protected areas to attacks on humans & livestock and leopard deaths. They also report on the presence of leopards in human settlements, which often leads to capture/rescue and translocation operations. Reports of these incidents are primarily in Hindi, which is the most widely-spoken language in the State. The wide readership of print media, and its role in reporting leopard-related incidents, lend themselves to two considerations from a management perspective: first, it is important to analyse the content that is represented in newspapers; and second, the spatial and temporal patterns or trends of these reported incidents, particularly outside protected areas.

Data collection and processing

We selected Rajasthan Patrika (published in Hindi) as an ideally suited media publication for our study,

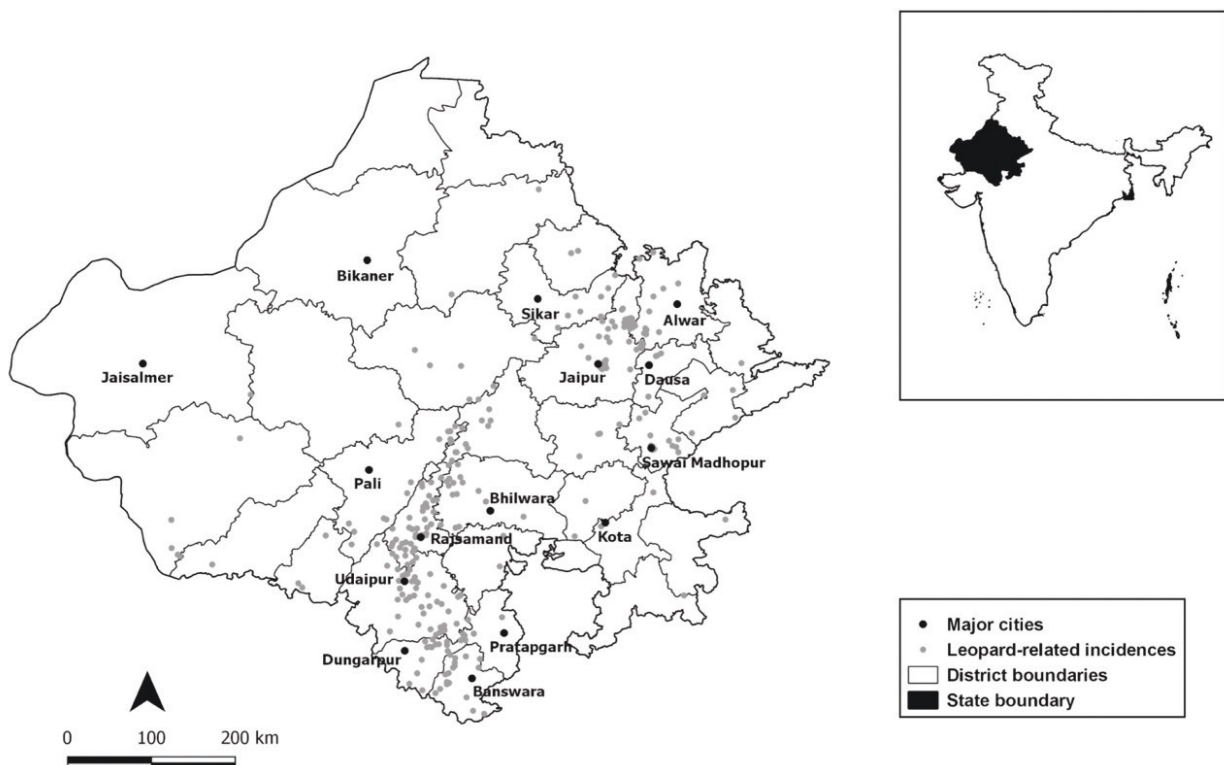


Figure 1. Locations of leopard-related incidents in the state of Rajasthan (January 2016–December 2018) mapped based on media reports.

because it has high readership across the State with an average issue readership of 7,586,000 people (Indian Readership Survey 2017) as compared to average issue readership of other regional publications (Punjab Kesari with 3,252,000 and Navbharat Times with 2,327,000 people). All the reports pertaining to leopard-related incidents were collected from the publication's online portal (www.patrika.com/rajasthan-news/), from January 2016 to December 2018. We extracted detailed information on various aspects of human-leopard interactions (see Table 1), including precise geographic location (name of village/town/city, sub district, district), date of event, time of event and type of event, along with associated details about the leopard(s) involved in the incident, and livestock/human victims. Media reports were classified into major thematic categories, multiple reports pertaining to the same incident were combined, and each incident was assigned a unique identification code before being archived (see Supplementary Table 1).

Spatial patterns of leopard-related incidents

Our objective was to use media reports to identify spatial patterns of human-leopard interactions in the State. We spatially mapped the number of media reports by assigning incidents to the corresponding districts and determined geographic coordinates of the village/town/city named in each media report using Google Earth (version 7.3.2). To minimize errors arising from villages with same/similar names, we used a directory of village names (from government records), tracing their locations by sub-district and district names as additional qualifiers. Reports for which we could not reliably assign spatial locations were excluded from the spatial maps; other relevant information from such reports was nonetheless used for examining aspects related to leopards and/or the livestock/human victims. We used geospatial software QGIS (version 3.4.6) to generate spatial maps for each category of leopard-related incidents as detailed in Table 1.

Characterizing human and livestock attacks

We undertook detailed analyses of specific cases where leopard attacks on livestock/humans were reported. First, we sought to identify temporal patterns (if any) in these attacks. Using date and month information as reported in the newspapers, we broadly classified unique incidents of leopard attacks based on seasons (Summer—March to June, Monsoon—July to October, and Winter—November to February). Next, we analysed information on the specific locations of human attacks, the activity of humans during the attack and

the demographics of human victims (sex and age group, i.e., male/female, infant/young/adult; where, infant: <5 years, young: 5–18 years, and adult: >18 years). Similarly, we also created a profile of all the livestock attacked, as presented in individual reports (species/breed, and young/adult).

Fate of leopards outside protected areas

We examined three aspects related to the fate of leopards outside protected areas in Rajasthan. Given that mortality can severely impact leopard populations, we examined the causes of leopard deaths based on reportage. Second, we examined the reasons for management interventions that involved physical captures of leopards. For these events, specifically, we used data from forest department records of leopard captures and releases in the State to corroborate information reported in the media. Finally, we also recorded the locations where leopard cubs were reported and measured their distance to the nearest protected area. While doing so, we included protected areas from Rajasthan and also from the neighbouring states of Madhya Pradesh and Gujarat, since some locations could have been closer to the protected areas within these states rather than in Rajasthan.

RESULTS

Systematic searches of Rajasthan Patrika e-newspapers, available from the publication's online portal, yielded 306 media reports pertaining to leopard-related incidents that occurred between January 2016 and December 2018. We recorded a total of 338 leopard-related incidents, after thorough processing and separating out instances where multiple unique incidents were documented in the same report(s). Most incidents were reported within a day's time since the occurrence of the event. We found that 26 of 33 districts in the State of Rajasthan reported leopard-related incidents. Almost all incidents across categories were in the eastern half of the State (Fig. 2), and the highest frequencies of events were clustered in the southern districts (see Table 2). Of the reports related to human attacks ($n=78$) during the period of our study, around 50% were in the southern districts of Udaipur, Rajsamand, Dungarpur, Banswara, and Pratapgarh. Udaipur had the highest percentage of reports on human attacks (18%) followed by Rajsamand (14%), Alwar (8%), Banswara (8%), and Jaipur (6%). Human deaths in the period from January 2016 to December 2018 ($n=15$) occurred in Rajsamand

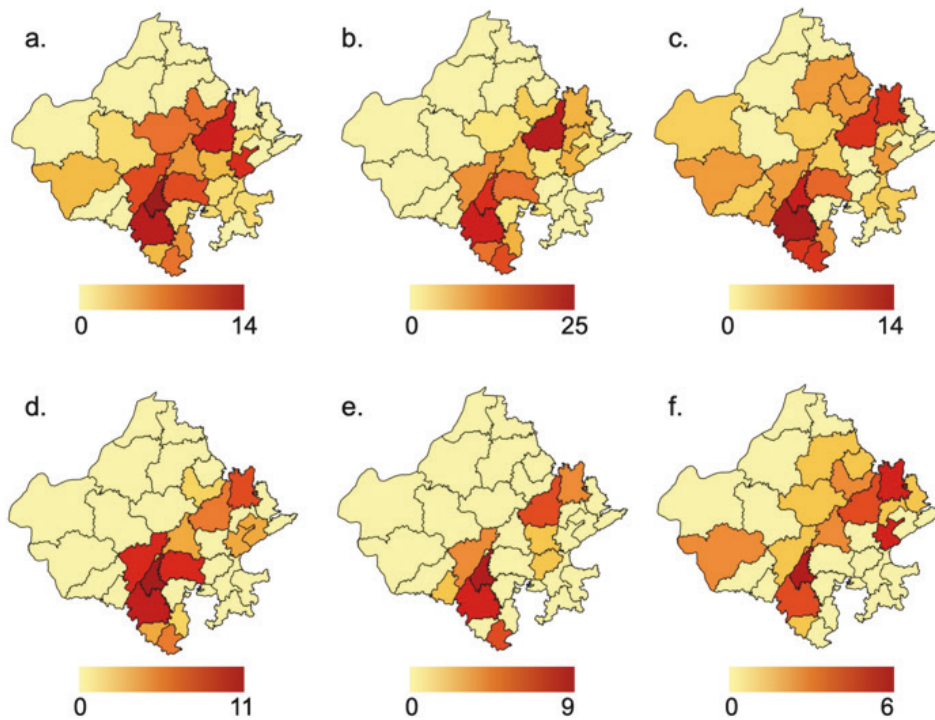


Figure 2. Spatial patterns of leopard-related incidents in Rajasthan based on media reports (January 2016–December 2018). a—leopard sightings | b—livestock attacks | c—human attacks | d—leopard deaths | e—leopard rescues | f—leopard captures.

Table 1. Major thematic categories of leopard-related incidents in Rajasthan, based on information extracted from media reports (January 2016–December 2018).

Category	Description
Leopard sightings	Leopards sighted by people outside Protected Areas; within village limits, on roads, inside livestock shelters, forested areas near villages, urban/industrial establishments, agricultural fields, or open/barren areas.
Livestock attacks	Attacks on domestic livestock– goat, sheep, cow, calf of a cow or calf of a buffalo– inside livestock shelters or during herding activity. Attacks on guard dogs were also included, separately.
Human attacks	Attacks in self-defense in a mob, incidental attacks on humans during attacks on livestock, deliberate attacks on children, attacks on adult humans in agricultural fields, attack on department personnel during capture operations.
Leopard deaths	Incidents involving leopard deaths: natural death, poaching (missing body parts such as nails or teeth), vehicular/train collision, electrocution, retaliatory killing, death during capture/rescue/translocation operations.
Leopard rescues	Incidents where Forest Department personnel rescued leopards from open wells, iron traps, following road collisions or rescues of cubs from human-use areas.
Leopard captures	Leopards captured by Forest Department from a village/town/city for translocation to other sites. Capture of leopards was usually a consequence of leopard sightings in human-use areas, attacks on livestock and/or attacks on humans.

(6), Alwar (3), Udaipur (2), Pratapgarh (2), and Jaipur (2). For livestock attacks (n= 79), the eastern district of Jaipur had the highest number of reports (28%) followed by the southern districts of Udaipur (14%), Rajsamand (12%), Banswara (7%), and Dungarpur (6%).

Attacks on humans and livestock

The number of human attacks reported was similar in summer and winter months; monsoon months had much fewer attacks. Most attacks on livestock were reported in the summer months, and least in the monsoon months (Figure 3). The 78 media reports on human attacks

involved 120 people (85 male and 35 female). Fifteen of these 120 (5 male and 10 female) resulted in fatalities. Most of the victims attacked (76 of 120) were adults, while 20 were young and one was an infant; the age of the victim was not reported in 23 cases. Except for 12% of attacks on people in forest areas and 12% of attacks for which exact location was unknown/not reported, all other attacks took place in predominantly human-use areas. Attacks in farmlands were the highest, at 38% (Figure 4). Most (53%) of the victims were attacked while they were engaged in outdoor activities. About 11% and 14% of the people were attacked inside their

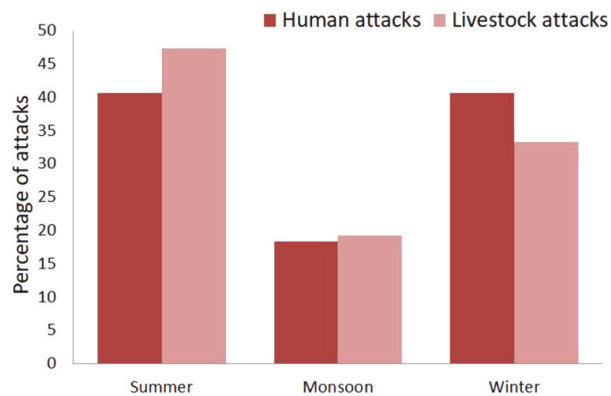


Figure 3. Seasonal patterns of leopard attacks on humans (n= 78) and livestock (n= 79) (Summer– March to June, Monsoon– July to October, Winter– November to February), based on reports during the study period (2016–2018).

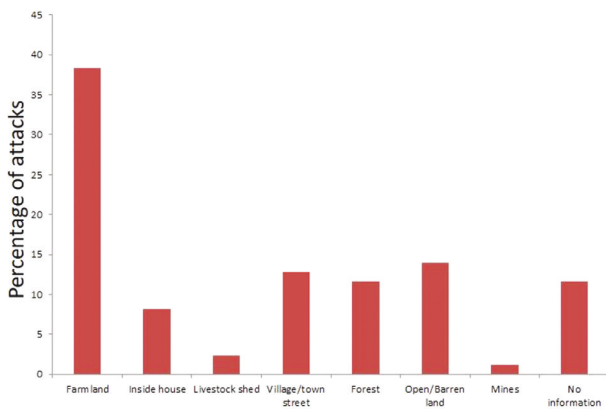


Figure 4. Proportions of leopard attacks on humans (n= 78) classified by location of attacks, during the three-year study period (2016–2018)

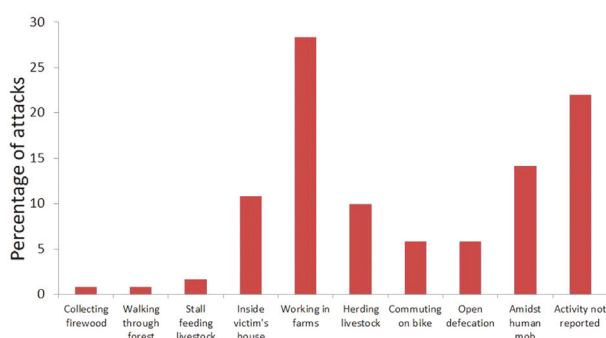


Figure 5. Activity of human victims (n= 120) during leopard attacks in Rajasthan, based on media reports, during the three-year study period (2016–2018)

house and during a mob commotion around a leopard, respectively. Around 21% of the attacks did not have any reported details regarding the activity of the victim (Figure 5).

More than 50% of media reports on livestock attacks pertained to goat and sheep deaths, followed by reports on calves of cows (~23%). A relatively lower number of reported attacks were on adult cows and buffalo calves (12% of reports each).

Leopard mortalities and physical captures

Media reports analysed in this study included 56 cases of leopard deaths (outside protected areas). Considering the subset that included reports where the cause of death was known (63% of total), 52% of deaths were due to vehicular collisions on roads or railway lines. Ten road-collision incidents occurred on national or state highways. The second most common cause was accidental deaths after falling into open wells (20%). Retaliatory killing by people accounted for 11% of deaths, and the other 17% of cases included electrocution, trapping and death following rescue operations. Three cases have been reported of probable death by poaching, with indications like missing nails, teeth, and heads. Around 37% of cases did not report the cause of death, or, indicated that the cause could not be conclusively determined.

We recorded a total of 32 cases of physical capture/removal of leopards through direct intervention of the forest department personnel. More than 50% of these captures were undertaken following a leopard sighting in human-use areas (indicating leopard presence, but no damage to human life or property). Captures/removals following attacks on humans and livestock occurred in 25% and 19% of the cases, respectively, with one case where the reason for capture was not reported.

The presence of breeding leopards was recorded from 15 sub-districts, where 36 cubs were rescued by the forest department and eight cubs were found dead during the study period. We found that the average distance between the location from where cubs' presence was reported and the nearest protected area was ~39 km (range= 0–104 km).

DISCUSSION

Information on species like leopards is hard to obtain from fully human-dominated landscapes, especially at broad spatial scales within a short duration and in a cost-effective manner (Athreya et al. 2015). We analysed media reports to better understand leopard-human interactions across Rajasthan. We show that media reports can serve as an important resource to obtain quick yet valuable information on wildlife across



Table 2. Top five districts in each category ranked based leopard-related incidents reported. Figures in parentheses are the actual numbers of reports from the corresponding district (January 2016–December 2018)

Rank	Leopard sighting	Livestock attacks	Human attacks	Leopard deaths	Leopard rescues	Leopard captures
1	Rajsamand (14)	Jaipur (25)	Udaipur (14)	Rajsamand (11)	Rajsamand (9)	Rajsamand (6)
2	Udaipur (13)	Udaipur (13)	Rajsamand (11)	Udaipur (7)	Udaipur (4)	Alwar (4)
3	Jaipur (12)	Rajsamand (11)	Alwar (6)	Bhilwara (5)	Banswara (3)	S. Madhopur (4)
4	S. Madhopur (7)	Banswara (6)	Banswara (6)	Pali (5)	Jaipur (3)	Udaipur (3)
5	Bhilwara (5)	Dungarpur (5)	Jaipur (5)	Alwar (4)	Alwar (2)	Jaipur (3)

a large landscape, where implementing other common field-based survey methods would be economically and logistically infeasible. The reports we analysed over the three-year duration indicated that leopard-related incidents were largely restricted to the eastern zone of the State panning two major areas. The first was in the southern districts of Rajsamand, Udaipur, Dungarpur, Banswara, and borders of Pali. The second area was in the northeastern districts of Jaipur, Alwar, Sikar, and Dausa. Both these areas constituted 50% and 22% of all reported incidents, respectively. This spatial pattern likely reflects habitat types and vegetation cover across the eastern and the northeastern zones, which have higher prey (wild and domestic) availability. The western zone of the State consists of largely open, barren, desert habitats, making it unsuitable for leopards, although, very few records were present from some parts of the western zone.

Telemetry studies of leopards from across their global range suggest that their home ranges could vary from 2 to 600 km² (average= 160km², median= 54km²) (Simcharoen et al. 2008; Steyn & Funston 2009; Weilenmann et al. 2010; Grey 2011; Stein et al. 2011; Habib et al. 2014; Rozhnov et al. 2015; Fattebert et al. 2016; Kittle et al. 2017). Considered together with the fact that leopard cubs were found up to 104 km away from the nearest protected area, our assessment provides evidence in favour of resident, breeding leopard populations in human-dominated areas of the State. Studies in Karnataka and Maharashtra have reported similar cases of resident leopard populations in completely human-dominated areas (Athreya et al. 2013, 2015). Although most of the leopard-related incidents we report were in the rugged, hilly areas of the eastern region, some leopards were also reported from the relatively open, arid western region, indicating a rather widespread distribution of the species across the State.

Analysis of the reportage indicated that 29% (n= 90) was related to only leopard sightings. A total of 70%

(n= 38) of the reports on livestock depredation involved attacks on goats and calves, indicating that the leopards are generally pursuing small or medium-sized domestic prey. With respect to human victims, we found that adult males accounted for 75% of all attacks. This may be due to two reasons: first, men generally intervened to 'handle' situations involving leopards in human-use areas before the arrival of the forest department personnel, and men were also more prone to the attacks in the open ruckus created amidst a mob during rescue operations; second, many attack incidents took place when the victims were grazing their livestock, which is almost always carried out by the men in the family. On the other hand, young children were typically attacked when they were asleep or were left unsupervised. Taken together, 15 of the 120 attacks resulted in the death of the victim, suggesting that loss of human life, although a very grave issue, is not the norm.

There were many reports regarding the death of leopards (n= 56), and among the known causes, 43% were because of road collisions on the state or national highways. Similar results were found in a study in Karnataka (Gubbi et al. 2014). Such linear infrastructures, besides causing direct mortalities, can also impact the gene flow of large carnivores like Tigers and Leopards (Thatte et al. 2019; Jayadevan et al. 2020). There is greater need to mitigate mortality due to linear infrastructure and information of high leopard mortality due to roads/railways from our analysis of media reports shows the same for the state of Rajasthan. Based on the district-wise maps of mortality we present, mitigation measures such as increasing the number of speed breakers, installing road signages of animal crossing/presence and vehicle patrols at the national or state highways may be implemented by management authorities.

Locations with frequent physical captures of leopards somewhat correlated with high numbers of human and livestock attacks. Studies have shown that removal of carnivores may increase conflict due to social

disruption, and is also ineffective in reducing population densities because new individuals immediately occupy these vacant territories (Linnell et al. 1997). These new individuals would further alleviate conflict situations since they are not familiar with the area (Lindzey et al. 1992; Cooley et al. 2009; Athreya et al. 2010). Around 53% of the captures reported were carried out following a leopard sighting (with no attacks on people or livestock). Such removals, generally executed by the forest department under media pressure, may affect the attitude of local residents and generate more intolerance towards leopards. We argue that removals which do not involve any negative interaction among human and leopards will not help mitigate conflict. Large carnivores typically require large spaces, invariably creating some overlap with human-use areas and it is highly important to accept these dynamics at the policy and management levels (MOEF Guidelines for human-leopard conflict management 2011).

CONCLUSION

Our study provides some key insights on leopard ecology and human-leopard interactions in the state of Rajasthan. A more rigorous, field-based approach in the areas of high conflict could have helped better understand the socio-political and economical aspects, while offering information on ecologically favourable, leopard-friendly landscapes. Despite the limitations in the overall scope because of the methods we chose, our findings still offer a broad understanding of the status of leopards at a state-wide scale. We show that media reports can be used for quick and cost-effective information to assess the spread of leopard incidences across wide spatial scales. Leopards are widely distributed across Rajasthan, and negative interactions between people and leopards, although widespread, are mainly in the eastern part of the State. The maps we present can be useful for prioritizing management efforts in managing leopard populations, conflict situations and channeling monetary resources. Our results could serve as a basis for wildlife managers and the government to initiate a detailed assessment of leopard populations in specific locations, focused on human-use landscapes.

Finally, the media acts as a frontier for disseminating information to the public. Since, print media is the main source of news across the State, it plays a key role in shaping public perception towards wildlife. In our study, it appeared to be portraying a level of conflict that was higher than what data-based analysis revealed. A more

responsible and measured reporting of leopard-related incidents by the regional media outlets could go a long way in bettering people's perceptions towards and acceptance of leopards in shared landscapes. Considered together, these multiple, interlinked strategies could be helpful to adequately mitigate negative interactions between humans and leopards, and aid in leopard conservation in the long term.

REFERENCES

- Alexander, S.M. & M.S. Quinn (2012). Portrayal of interactions between humans and Coyotes (*Canis latrans*): content analysis of Canadian print media (1998–2010). *Cities and the Environment* 4: 9.
- Athreya, V., M. Odden, J.D.C. Linnell & K.U. Karanth (2010). Translocation as a tool for mitigating conflict with leopards in human-dominated landscapes of India. *Conservation Biology* 25(1): 133–141. <https://doi.org/10.1111/j.1523-1739.2010.01599.x>
- Athreya, V., M. Odden, J.D.C. Linnell, J. Krishnaswamy & K.U. Karanth (2013). Big cats in our backyards: persistence of large carnivores in a human dominated landscape in India. *PLoS ONE* 8(3): e57872. <https://doi.org/10.1371/journal.pone.0057872>
- Athreya, V., A. Srivathsa, M. Puri, K.K. Karanth, N.S. Kumar & K.U. Karanth (2015). Spotted in the news: using media reports to examine Leopard distribution, depredation, and management practices outside protected areas in southern India. *PLoS ONE* 10(11): e142647. <https://doi.org/10.1371/journal.pone.0142647>
- Athreya, V., M. Odden, J.D.C. Linnell, J.K. Swamy & K.U. Karanth (2016). A cat among the dogs: leopard *Panthera pardus* diet in a human-dominated landscape in western Maharashtra, India. *Oryx* 50(1): 156–162. <https://doi.org/10.1017/S0030605314000106>
- Banerjee, K., Y.V. Jhala, K.S. Chauhan & C.V. Dave (2013). Living with lions: the economics of coexistence in the Gir forests, India. *PLOS ONE* 8(1): e49457. <https://doi.org/10.1371/journal.pone.0049457>
- Bhatia, S., V. Athreya, R. Grenyer & D.W. Macdonald (2013). Understanding the role of representations of human-leopard conflict in Mumbai through media-content analysis. *Conservation Biology* 27(3): 588–594. <https://doi.org/10.1111/cobi.12037>
- Bornatowski, H., N.E. Hussey, C.L.S. Sampaio & R.R.P. Barreto (2019). Geographic bias in the media reporting of aquatic versus terrestrial human predator conflicts and its conservation implications. *Perspectives in Ecology and Conservation* 17(1): 32–35. <https://doi.org/10.1016/j.pecon.2018.12.004>
- Census of India (2011). Retrieved from <https://censusindia.gov.in/> on 28 May 2019.
- Chapron, G. & J.V. López-Bao (2014). Conserving carnivores: politics at play. *Science* 343: 1199–1200.
- Chapron, G., P. Kaczensky, J.D.C. Linnell, M. von Arx, D. Huber, H. Andrén, J.V. López-Bao, M. Adamec, F. Álvares, O. Anders & L. Balčiauskas (2014). Recovery of large carnivores in Europe's modern human-dominated landscapes. *Science* 346: 1517–1519.
- Cooley, H.S., R.B. Wielgus, G.M. Koehler, H.S. Robinson & B.T. Maletzke (2009). Does hunting regulate cougar populations? A test of the compensatory mortality hypothesis. *Ecology* 90: 2913–2921. <https://doi.org/10.1890/08-1805.1>
- Crown, A. & F. Doubleday (2017). 'Man-eaters' in the Media: Representation of human leopard interactions in India across local, national & international media. *Conservation and Society* 15(3): 30.
- Dhee, V. Athreya, J.D.C. Linnell, S. Shivakumar & S.P. Dhiman (2019). The leopard that learnt from the cat and other narratives of carnivore–human coexistence in northern India. *People and Nature* 1(3): 376–386. <https://doi.org/10.1002/pan3.10039>
- Dickman, A. (2010). Complexities of conflict: the importance of considering social factors for effectively resolving human–



- wildlife conflict. *Animal Conservation* 13: 458–466. <https://doi.org/10.1111/j.1469-1795.2010.00368.x>
- Fattebert, J., G.A. Balme, H.S. Robinson, T. Dickerson, R. Slotow & L.T.B. Hunter (2016). Population recovery highlights spatial organization dynamics in adult leopards. *Journal of Zoology* 299: 153–162. <https://doi.org/10.1111/jzo.12344>
- Ghosal, S., V. Athreya, J.D.C. Linnell & P.O. Vedeld (2013). An ontological crisis? A review of large felid conservation in India. *Biodiversity and Conservation* 22: 2665–2681.
- Grey, J.N.C. (2011). Leopard population dynamics, trophy hunting and conservation in the Soutpansberg Mountains, South Africa. PhD Thesis. Durham University, UK. <http://doi.org/10.1126/science.1257553>
- Gubbi, S., H.C. Poornesha, A. Daitkota & H. Nagashettihalli (2014). Roads emerging as a critical threat to leopards in India. *Cat News* 60: 30–31.
- Habib, B., G.V. Gopi, A. Noor & Z.R. Mir (2014). Ecology of leopard (*Panthera pardus*) in relation to prey abundance and land use pattern in Kashmir Valley. Project Completion Report submitted to Department of Science and Technology, Govt. of India. Wildlife Institute of India, Dehradun.
- Hathaway, R.S., S.E.M. Bryant, M.M. Draheim, P. Vinod, S. Limaye & V. Athreya (2017). From fear to understanding: Changes in media representations of leopard incidences after media awareness workshops in Mumbai, India. *Journal of Urban Ecology* 3: jux009. <https://doi.org/10.1093/jue/jux009>
- Indian Readership Survey (2017). Media Research Users Council India. Retrieved from <https://mruc.net/> on 29 May 2019.
- Jacobson, A.P., P. Gerngross, J.R. Jr Lemeris, R.F. Schoonover, C. Anco, C. Breitenmoser-Wursten, S.M. Durant, M.S. Farhadinia, P. Henschel, J.F. Kamler & A. Laguardia (2016). Leopard (*Panthera pardus*) status, distribution, and the research efforts across its range. *PeerJ* 4: e1974. <https://doi.org/10.7717/peerj.1974>
- Jayadevan, A., R. Nayak, K.K. Karanth, J. Krishnaswamy, R. DeFries, K.U. Karanth & S. Vaidyanathan (2020). Navigating paved paradise: Evaluating landscape permeability to movement for large mammals in two conservation priority landscapes in India. *Biological Conservation* 247: e108613. <https://doi.org/10.1016/j.biocon.2020.108613>
- Joshi, A., S. Vaidyanathan, S. Mondol, A. Edgaonkar & U. Ramakrishnan (2013). Connectivity of tiger (*Panthera tigris*) populations in the human-influenced forest mosaic of central India. *PLoS ONE* 8: e77980. <https://doi.org/10.1371/journal.pone.0077980>
- Karanth, K.K., A.M. Gopalaswamy, P.K. Prasad & S. Dasgupta (2013). Patterns of human–wildlife conflicts and compensation: insights from Western Ghats protected areas. *Biological Conservation* 166: 175–185. <https://doi.org/10.1016/j.biocon.2013.06.027>
- Kittle, A.M., A.C. Watson & T.S.P. Fernando (2017). The ecology and behaviour of a protected area Sri Lankan leopard (*Panthera pardus kotiya*) population. *Tropical Ecology* 58: 71–86.
- Knopff, A.A., K.H. Knopff & C.C.S. Clair (2016). Tolerance for cougars diminished by high perception of risk. *Ecology and Society* 21: 33.
- Kshetry, A., S. Vaidyanathan & V. Athreya (2017). Leopard in a tea-cup: a study of leopard habitat-use and human-leopard interactions in north-eastern India. *PLoS ONE* 12(5): e0177013. <https://doi.org/10.1371/journal.pone.0177013>
- Kshetry, A., S. Vaidyanathan & V. Athreya (2018). Diet selection of leopard (*Panthera pardus*) in a human-use landscape in north-eastern India. *Tropical Conservation Science* 11(3): 1–9. <https://doi.org/10.1177%2F1940082918764635>
- Lindzey, F.G., W.D. Van Sickle, S.P. Laing & C.S. Mecham (1992). Cougar population response to manipulation in southern Utah. *Wildlife Society Bulletin* 20: 224–227.
- Linnell, J.D.C., J.E. Swenson & J. Odden (1997). Translocation of carnivores as a method for managing problem animals: A review. *Biodiversity and Conservation* 6: 1245–1257.
- Madden, F. (2004). Creating coexistence between humans and wildlife: global perspectives on local efforts to address human–wildlife conflict. *Human Dimensions of Wildlife* 9: 247–257. <https://doi.org/10.1080/10871200490505675>
- MoEF Guidelines for human-leopard conflict management (2011). Retrieved from <http://moef.gov.in/wp-content/uploads/2017/07/moef-guidelines-2011-human-leopard-conflict-management.pdf> on 10 September 2020.
- Peterson, M.N., J.L. Birkhead, K. Leong, M.J. Peterson & T.R. Peterson (2010). Rearticulating the myth of human–wildlife conflict. *Conservation Letters* 3(2): 74–82. <https://doi.org/10.1111/j.1755-263X.2010.00099.x>
- Puri, M., A. Srivathsa, K.K. Karanth, I. Patel & S. Kumar (2020). The balancing act: maintaining leopard-wild prey equilibrium could offer economic benefits to people in a shared forest landscape of central India. *Ecological Indicators* 110: 105931. <https://doi.org/10.1016/j.ecolind.2019.105931>
- Ripple, W.J., J.A. Estes, R.L. Beschta, C.C. Wilmers, E.G. Ritchie, M. Hebblewhite, J. Berger, B. Elmhagen, M. Letnic, M.P. Nelson & O.J. Schmitz (2014). Status and ecological effects of the world's largest carnivores. *Science* 343: 1241484. <https://doi.org/10.1126/science.1241484>
- Rozhnov, V.V., M.D. Chistopolova, V.S. Lukarevskiy, J.A. Hernandez-Blanco, S.V. Naidenko & P.A. Sorokin (2015). Home range structure and space use of a female Amur leopard, *Panthera pardus orientalis*, (Carnivora, Felidae). *Biology Bulletin* 42: 821–830.
- Sakurai, R., S.K. Jacobson & G. Ueda (2013). Public perceptions of risk and government performance regarding bear management in Japan. *Ursus* 24: 70–82. <https://doi.org/10.2192/URSUS-D-12-00011.1>
- Simcharoen, S., A.C.D. Barlow, A. Simcharoen & J.L.D. Smith (2008). Home range size and daytime habitat selection of leopards in Huai Kha Khaeng Wildlife Sanctuary, Thailand. *Biological Conservation* 141: 2242–2250. <https://doi.org/10.1016/j.biocon.2008.06.015>
- Stein, A.B., T.K. Fuller, S. DeStefano & L.L. Marker (2011). Leopard population and home range estimates in north-central Namibia. *African Journal of Ecology* 49: 383–387.
- Steyn, V. & P.J. Funston (2009). Land-use and socio-spatial organization of female leopards in a semi-arid wooded savanna, Botswana. *South African Journal of Wildlife Research* 39: 126–132. <https://doi.org/10.3957/056.039.0203>
- Thatte, P., A. Chandramouli, A. Tyagi, K. Patel, P. Baro, H. Chattani & U. Ramakrishnan (2019). Human footprint differentially impacts genetic connectivity of four wide-ranging mammals in a fragmented landscape. *Journal of Conservation of Biogeography* 26(3): 299–314. <https://doi.org/10.1111/ddi.13022>
- Treves, A. & K.U. Karanth (2003). Human-carnivore conflict and perspectives on carnivore management worldwide. *Conservation Biology* 17(6): 1491–1499. <https://doi.org/10.1111/j.1523-1739.2003.00059.x>
- Vynne, C., J.L. Keim, R.B. Machado, J. Marinho-Filho, L. Silveira, M.J. Groom & S.K. Wasser (2011). Resource selection and its implication for wide-ranging mammals of the Brazilian Cerrado. *PLoS ONE* 6(12): e28939. <https://doi.org/10.1371/journal.pone.0028939>
- Weilenmann, M., M. Gusset, D.R. Mills, T. Gabanapelo & M. Schiess-Meier (2010). Is translocation of stock-raiding leopards into a protected area with resident conspecifics an effective management tool? *Wildlife Research* 37(8): 702–707. <https://doi.org/10.1071/WR10013>

Supplementary Table 1. Raw data pertaining to leopard-related incidents compiled from media reports in Rajasthan (2015–2018).

Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
R1	Leopard sighting	05-Jan-18	Bariya meda	Masuda (Ajmer)	Day	Village	Not given		Leopard chased by the villagers	
R2	Human attack	10-Jan-18	Jarpha	Kumbhalgarh (Rajsamand)	Dawn	Forest	Not given		Attacked on female who then died, was collecting timber in the forest	Female; Adult
R3	Dead Leopard	13-Jan-18	Lekri	Bansur (Alwar)	NA	Forest	Not given		Dead body found	
R4	Livestock attack	18-Jan-18	Bidara	Shahpura (Jaipur)	Night	Village	Not given		Attacked on a goat	
R5	Leopard sighting; Human attack; Captured	18-Jan-18	Panoria, Madawao, Fagaliya	Chohtan (Barnmer)	Day (Captured from fagaliya)	Not given	Not given	Leopard sight; Attack on human	Leopard sight (Panoria), attacked on two people (Madawao), Captured (Fagaliya)	Not given; Not given
R6	Human attack	23-Jan-18	Hempura (Mandesara)	Bhainsrodgarh (Chittorgarh)	Not given	Open field	Not given		attack happened on a male while he was defecating	Male; Adult
R7	Human attack; Livestock attack	27-Jan-18	Kathar, Bamnia	Girwa & Salumber (Udaipur)	Dusk (Kathar), Night (Bamnia)	Village	Not given		Attack on a male in livestock shed (Kathar), Attack on goat (Bamnia)	Male; Adult
R8	Rescued	29-Jan-18	Amberi	Girwa (Udaipur)	Dawn	Village	Not given			
R9	Leopard sighting; Human attack; Rescued	31-Jan-18	Kothun road, Lalsot town	Lalsot (Dausa)	Dawn	Town	Not given	Leopard sight; Attack on human	Attacks on multiple human (hotel owner and few other) in defense, got hardly beaten by people in retaliation	Male; Adult; Female; Young
R10	Dead Leopard; Captured	02-Feb-18	Kaya, Keora	Girwa & Salumber (Udaipur)	Night (Keora)	Cropfield; Forest	Female (Both cases)	Leopard sight	Wheat cropfield in kaya, captured by FD	
R11	Leopard sighting	11-Feb-18	Kota thermal power plant	Kota	Night	Power plant	Not given			
R12	Human attack	15-Feb-18	Bawaria	Sanchoore (Jaalore)	Dawn	Open field	Not given		Probably strayed leopard, attacked on a young male	Male; Not given
R13	Dead Leopard	15-Feb-18	Baori chhota bhanuja	Khamnor (Rajsamand)	NA	Forest	Female		Electrocuted	
R14	Leopard sighting	17-Feb-18	Ghaghar valley (Near Daulatgarh, Asind)	Asind (Bhilwara)	Night	Forest	Not given			
R15	Dead Leopard	17-Feb-18	Bemali chauraha, Karera	Mandal (Bhilwara)	Not given	Cropfield	Not given		Leopard fallen in well with a dog	
R16	Livestock attack	20-Feb-18	Kemariya	Asind (Bhilwara)	Night	Village	Not given		Attacked on goats, Todgarh raoli wildlife sanctuary is nearby	
R17	Livestock attack	21-Feb-18	Kanela	Ghatol (Banswara)	Night	Village	Not given		Attacked on goats and killed a dog too	
R18	Human attack; Captured	22-Feb-18	Dhako ka tala (Navatala rathodan)	Chohtan (Barnmer)	Day	Village	Not given	Human attack	attacked on 5 males, was searching for food and water Release in Machia safari park, Probably same strayed leopard of R12	Male; Adult
R19	Captured	23-Feb-18	Seth ji ki kundal	Girwa (Udaipur)	Not given	Village	Not given	Livestock attack	Captured from the village, killed a goat	
R20	Leopard sighting	23-Feb-18	Kherla	Khandar (Sawai madhopur)	Night	Cropfield	Not given		A Male fell down in a well and died, although just chased by the leopard	
R21	Leopard sighting	24-Feb-18	Amagarh	Jaipur urban	Day	Forest	Female (Cub)		Jhalana leopard conservation reserve is nearby	
R22	Dead Leopard	26-Feb-18	Ghasiyar (Pindwara highway)	Bargaon (Udaipur)	Dawn	Village	Not given			



Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
R23	Dead Leopard	28-Feb-18	Tolawas (Talvriksh range, Sariska)	Thanagazi (Alwar)	NA	Forest	Not given		Found dead on a tree	
R24	Livestock attack; Dead Leopard	28-Feb-18	Kothar and Bisalpur	Bali (Pali)	Night (Kothar)	Village; Forest	Not given		Attacked and killed multiple goat and sheep in Kothar, Leopard conservation area of Bisalpur	
R25	Dead Leopard	04-Mar-18	Kalimagri, (Kunwariya)	Rajsamand	Not given	Cropfield	One Female	One Male cub	Both died after falling in a well	
R26	Rescued	06-Mar-18	Chhora and Dudapura	Desuri (Pali)	Not given	Forest	Not given		Leopard was trapped in iron trap, Multiple other traps found by FD in the area	
R27	Livestock attack	14-Mar-18	Mohanpura, (Kundera range, Ranthambore)	Sawai madhopur	Night	Village	Not given		Attacked and killed 8 sheep	
R28	Leopard sighting	14-Mar-18	Jilda ki dhani, (Kho nagoriyan)	Sanganer (Jaipur)	Night	Cropfield	Female		Wheat cropfield, Killed dog the same night	
R29	Leopard sighting; Livestock attack	17-Mar-18	Shyalodara	Neem ka thana (Sikar)	Dusk	Village	Not given		Leopard came in village and tried to get some livestock kill, killed 2 goats days back	
R30	Leopard sighting; Human attack; Livestock attack	19-Mar-18	Sewaradhani, Jodhoola, Talva, Galawas, Bihajar, Satana, Sar	Viratnagar, all except sar in amber (Jaipur)	Dawn (Sewaradhani), Night (Sar)	Village	Not given		Killed livestock in Sar, Spotted in livestock shed in sewaradhani, Attacked on female in Jodhoola, Livestock kill in other villages	Female; Adult
R31	Livestock attack	20-Mar-18	Nichli bhagal, (Khamnor)	Khamnor (Rajsamand)	Night	Town	Not given		Killed a goat	
R32	Captured	26-Mar-18	Hanumatpur, (Datooli panchayat)	Bonli (Sawai madhopur)	Day	Village	Not given	Leopard sight	Captured by ranthambore team and released inside the ranthambore national park	
R33	Livestock attack	08-Apr-18	Arapura forest range	Dharyawad (Pratapgarh)	Night	Village	Not given		Attacked on a shepherd's herd	
R34	Human attack	09-Apr-18	Neelka	Viratnagar (Jaipur)	Dawn	Village	Female		Leopardess came in the village and attacked on a male got killed in retaliation by villagers.	Male; Young
R35	Human attack	10-Apr-18	Parawa	Sujangarh (Churu)	Dawn	Cropfield	Not given	Human attack	Attacked on a shepherd and shepherd's herd	Male; Young
R36	Dead Leopard	10-Apr-18	Jhar, (Banskhoh)	Bassi (Jaipur)	Night	Forest	Female		Leopardess hit by train	
R37	Dead Leopard	11-Apr-18	Umrakhal, (Kesarpura panchayat)	Banswara	NA	Village	Female		Found dead in a well	
R38	Leopard sighting; Human attack	14-Apr-18	Bhamod, Palari, Norangpura, Shyampura, Antela, Teori, Med	Viratnagar (Jaipur)	Not given	Cropfield	Not given		Leopard attacked a male in antela, sightings in other villages	Male; Not given
R39	Livestock attack	17-Apr-18	Sindoli, Bhanwata (Kundal)	Dausa and Bandikui (Dausa)	Night (Bhanwata)	Village	Not given		Buffalo calf (Bhanwata), Cow; 's calf (Sindoli)	
R40	Leopard sighting	17-Apr-18	Malviyanagar industrial area	Jaipur urban	Night	City	Not given		Jhalana leopard conservation reserve is nearby	
R41	Leopard sighting; Livestock attack	19-Apr-18	Khoonta, Bharkhundi	Dharyawad (Pratapgarh)	Not given	Village	Female and two cubs		Killed goats, few sightings	
R42	Leopard sighting; Livestock attack	20-Apr-18	Bramaro ka badhia, (Karera)	Mandal (Bhilwara)	Dusk	Mines	Leopard couple and two cubs		Killed a cow's calf	
R43	Human attack	21-Apr-18	Sabdara	Asind (Bhilwara)	Dawn	Village	Not given		entered in village and attacked two males (adult) Retaliation from villagers	Male; Adult

Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
R44	Leopard sighting; Livestock attack	24-Apr-18	Satana, Jodhula, Antela, Jodhad villages	Viratnagar (Jaipur)	Dawn (Jodhad)	Village	Not given		Sight in Jodhad, Multiple kills of goats in other villages	
R45	Captured	25-Apr-18	Kelwa	Rajsamand	Not given	Mines	Not given	Leopard sight		
R46	Leopard sighting; Human attack; Livestock attack	25-Apr-18	Ven, Thoota mahoor, Kenar, Jhallara	Salumbar (Udaipur)	Night (Jhallara)	Village	Female & two cubs (Ven)		Killed 6 goats and cow in ven, Agoat and a sheep in thoota mahoor, spotted in Jhallara, attacked on a female in kenar while defecating	Female, Adult
R47	Livestock attack	30-Apr-18	Roba, (Jagat panchayat), Mangthala	Girwa & Mavli (Udaipur)	Night (Both places)	Village	Not given		Killed a cow's calf in roba, goats in mangthala	
R48	Rescued	09-Jun-18	Beneshwar dham	Banswara	Night	Village	Not given		Critically injured leopard	
R49	Leopard sighting; Livestock attack	09-Jun-18	Jodhoola, Bhanganga, Sewaradhani, Tevri	Viratnagar (Jaipur)	Night (Jodhoola)	Village	Not given		Killed 3 goats in Jodhoola, other villages reported with leopard sightings	
R50	Leopard sighting	11-Jun-18	Near Baleshwar dham	Neem ka thana (Sikar)	Day	Forest	Not given		Leopard was fallen in a well, Alive	
R51	Dead Leopard	11-Jun-18	Thana and Bagjana villages, (Karera)	Mandal (Bhilwara)	Not given	Cropfield; Village	Female (Thana)		Female leopard's dead body found in an open well in cropfield in thana; another dead leopard found in dumping yard in bagjana	
R52	Leopard sighting; Captured	11-Jun-18	Gudla, (Nathdwara)	Nathdwara (Rajsamand)	Day	Village	Not given	Leopard sight	Leopard found inside a sewer pipe, captured by FD	
R53	Human attack; Captured	13-Jun-18	Theekariya	Sri madhopur (Sikar)	Day	Cropfield	Not given	Human attack	Found in wheat cropfield, attacked on FD guard and a villager in defense, later captured and released in neem ka thana forest area	Male, Adult
R54	Human attack	15-Jun-18	Adwas	Sarada (Udaipur)	Dawn	Cropfield	Not given		Attacked on a female while she was working in cropfield	Female, Adult
R55	Livestock attack	17-Jun-18	Gopalpura, Adwas	Sarada (Udaipur)	Night (Both cases)	Cropfield; Village	Not given		Killed acow in gopalpura, killed a cow's calf in adwas	
R56	Leopard sighting	20-Jun-18	Kolar, (Sarada)	Sarada (Udaipur)	Dawn	Village	Not given			
R57	Dead Leopard	28-Jun-18	Power house chauraha, Udaipur dabok highway	Mavli (Udaipur)	Night	Town	Not given		Leopard killed in road accident	
R58	Leopard sighting	01-Jul-18	Kelwa	Rajsamand	Dawn	Cropfield	Not given but a cub			
R59	Rescued	05-Jul-18	Khorlai, (Pratapgarh)	Thanagazi (Alwar)	Night	Village	Male		Leopard fallen in a well, rescued by FD and taken to nahargarh biological park	
R60	Livestock attack	07-Jul-18	Khadka, (Kalota)	Dausa	Night	Village	Not given		Killed a cow's calf	
R61	Livestock attack	12-Jul-18	Jhalra	Asind (Bhilwara)	Night	Village	Not given		Leopard killed 3 goats in multiple attempts in a night	
R62	Dead Leopard	20-Jul-18	Veerbala dhani, (Gaori)		Dawn	Open field	Male		Dead leopard found in mountains	
R63	Livestock attack	22-Jul-18	Itawada, (Khandar forest range, Ranthambore)	Khandar (Sawai madhopur)	Night	Village	Not given		Killed a cow's calf	
R64	Human attack	22-Jul-18	Doom khera	Rajsamand	Day	Cropfield	Not given		Attacked on a female while she was working in cropfield	Female, Young



Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
R65	Leopard sighting	03-Aug-18	Chirwa valley of flowers	Bargaon (Udaipur)	Day	Forest	Not given			
R66	Rescued	11-Aug-18	Ghewar, (Tehla forest range, Sariska)	Rajgarh (Alwar)	Not given	Village	Not given		Leopard fallen in a public use well in the village and rescued by FD	
R67	Captured	12-Aug-18	Cement factory area	Sawai madhopur	Not given	City	Not given	Leopard sight	Earlier 9 capturing also been done by FD	
R68	Leopard sighting	12-Aug-18	Baghera	Sahara (Bhilwara)	Dawn	Cropfield	Not given			
R69	Livestock attack	13-Aug-18	Thali, Dagota, Neemla, Shriramgopalpura, Bassi	Jamwa Ramgarh (Jaipur)	Night (Thali)	Village	Not given		54 sheep 15 goats in thali, cow's calf in neemla, cow in shri ramgopalpura, goats in dagota	
R70	Dead Leopard	20-Aug-18	Lakhola	Sahara (Bhilwara)	Not given	Cropfield	Not given		Leopard fallen in a well and died	
R71	Livestock attack	21-Aug-18	Mamtori kalan, Poorawala, Kukdeia	Viratnagar (Jaipur), Mamtori kalan in shahpura	Night (All cases)	Village	Not given		Killed goats in every place.	
R72	Human attack	24-Aug-18	Bhalon ka guda, (Gudli)	Girwa (Udaipur)	Dawn	Cropfield	Not given		First case, Leopard attacked on a shepherd in a cropfield who was their with livestock, in other case, attacked a male in another cropfield who was also working	Male; Adult
R73	Leopard sighting	28-Aug-18	Behind dudhia balaji temple	Tonk	Dawn	Cropfield	Not given		Villagers claimed to have seen a female cub with the leopard	
R74	Leopard sighting; Rescued	03-Sep-18	Chaktodi chauraha, Nathdwara	Nathdwara (Rajsamand)	Not given	Cropfield	Not given		Spotted in an ill state	
R75	Leopard sighting	05-Sep-18	Agariya	Amet (Rajsamand)	Dusk	Cropfield	Not given		Leopard fallen in a well but FD failed to rescue it.	
R76	Livestock attack	07-Sep-18	Kundla, Aamloda, Badodia, Gheota, Talva, Berki, Pando	Viratnagar (Jaipur)	Night, Dusk (Pando)	Cropfield	Female & Female with two cubs (Pando)		Female leopard killed acow's calf in livestock shed in pando, Female leopard and two cubs in a cropfield in pando, Multiple other killings in other villages mostly goats	
R77	Dead Leopard	09-Sep-18	Netra	Sumerpur (Pali)	Dawn	Village	Male		Leopard killed in road accident	
R78	Livestock attack	16-Sep-18	Siras	Niwai (Tonk)	Not given	Not given	Femal with one female cub		Killed several livestock animals in the area, mostly around antariya balaji temple, Ranthambore NP is nearby	
R79	Rescued	19-Sep-18	kelwa	Rajsamand	Not given	Cropfield	Female cub		Leopard fallen in well, Rescued by FD and released in nearby forest area	
R80	Leopard sighting	27-Sep-18	Kalodar canal (Saroli)	Deoli (Tonk)	Night	Forest	Not given		Leopard spotted by shepherds near kalodar canal	
R81	Human attack	11-Oct-18	Hada khera, (Gopalpura panchayat, Dhariawad)	Dhariyawad (Pratapgarh)	Night	Village	Not given		Attacked on a girl while she was sleeping in house, she died (10 years old)	Female; Young
R82	Human attack	16-Oct-18	Parsola, Mayakhedi, Hada khera, (Dhariawad)	Dhariyawad (Pratapgarh)	Dusk (Mayakheri)	Cropfield; Forest	Not given		Attacked on a female while she was working in a cropfield, killed a cow in nearby forest of hadakhera	Female; Young

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R82a	Leopard sighting	18-Oct-18	Mayakhedi, Lambikalam (Dhariawad)	Dhariyawad (Pratapgarh)	Dusk (Lambikalam) Night (Mayakhedi)	Forest	Not given		Leopard spotted in trap camera in mayakhedi with the previous mentioned kill of cow, also killed a cow in lambikalam, karmeliya forest area	
R81a	Leopard sighting	19-Oct-18	Hada khera, Dhariawad	Dhariyawad (Pratapgarh)	Not given	Village	Not given		Leopard's continuous movement through the mentioned village	
R83	Human attack	21-Oct-18	Hada khera, (Gopalpura panchayat, Dhariawad)	Dhariyawad (Pratapgarh)	Night	Village	Not given		Leopard attacked on a female while she was defecating in the open	Female; Adult
R82b	Leopard sighting	22-Oct-18	Hadakhera	Dhariyawad (Pratapgarh)	Not given	Not given	Not given		Continuation of above reports	
R82c	Leopard sighting	24-Oct-18	Hadakhera, Mayakhedi	Dhariyawad (Pratapgarh)	Not given	Not given	Not given		Continuation of above reports	
R82d	Leopard sighting	24-Oct-18	villages of above karmelia forest range, Dhariawad	Dhariyawad (Pratapgarh)	Not given	Not given	Not given		Continuation of above reports	
R84	Leopard sighting	25-Oct-18	Naharpura, (Pratapgarh panchayat)	Raipur (Pali)	Night	Open field	Not given		Leopard spotted near Beawar Merta highway and vanished away	
R85	Human attack	01-Nov-18	Parsola deola road	Pratapgarh	Night	Open field	Not given		Attacked on a male who was on bike	Male; Adult
R86	Leopard sighting; Livestock attack	09-Nov-18	Amarsar, Khori	Shahpura (Jaipur)	Night (Both cases)	Village	Not given		Leopard killed 4 goats from multiple sheds in amarsar. Another case whereby leopards spotted by villagers in khori many times	
R87	Livestock attack	11-Nov-18	Saledipura	Khandela (Sikar)	Not given	Village	Leopard couple			
R88	Dead Leopard	13-Nov-18	Kadmal	Gogunda (Udaipur)	Night	Village	Female		Leopard killed in road accident	
R89	Leopard sighting	13-Nov-18	Bari ghati, (Thanwala)	Riyan Badi (Nagaur)	Night	Forest	Not given		with a nilgai kill	
R90	Leopard sighting	14-Nov-18	Basant bihar colony, Ajeetgarh town	Sri madhopur (Sikar)	Dawn	Town	Not given		Entered inside the colony and later escaped away into the forest after being noticed	
R91	Human attack	17-Nov-18	Bagori dhani, (Kotputli)	Kotputli (Jaipur)	Dawn	Village	Not given		Attacked on three males in defense and later villagers killed the leopard in retaliation	Male; Not given
R92	Leopard sighting	27-Nov-18	Manduthal, (Bhansol panchayat)	Mavli (Udaipur)	Night	Open field	Not given		Leopard spotted by villager in nearby road, another villager claimed about recent livestock killings	
R93	Human attack	28-Nov-18	Keli	Dhariyawad (Pratapgarh)	Not given	Forest	Not given		Attacked on a shepherd while herding activity, Shepherd died	Male; Young
R94	Leopard sighting; Captured	29-Nov-18	Prithvi singh ji ka khera	Bhider (Udaipur)	Not given	Cropfield	Not given	Leopard sight	Leopard got stuck in barbed wire while chasing nilgai, Captured by FD and released in nearby forest area	
R95	Human attack; Livestock attack; Captured	01-Dec-18	Bharkala	Masuda (Ajmer)	Dawn	Village	Not given	Livestock attack; Human attack	Attacked on two males and three females and killed 2 goats	Male; Not given; Female; Not given
R96	Captured	04-Dec-18	Suradiya	Jawaja (Ajmer)	Not given	Village	Female	Leopard sight	Released back in nearby todgarh raoli forest	



Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
R97	Dead Leopard	13-Dec-18	Khoja kakar, Udaipur jaisamand highway	Udaipur	Night	Forest	Male		Leopard killed in a road accident	
R98	Human attack	15-Dec-18	Mandhan	Behror (Alwar)	Dawn	Open field	Not given		Attacked on a shepherd while herding activity	Male; Adult
R99	Dead Leopard	16-Dec-18	Tikar Talab, near Amet	Amet (Rajsamand)	Not given	Open field	Not given		Leopard died after getting trapped in iron trap, although speculated to be for other animals.	
R100	Leopard sighting; Livestock attack	16-Dec-18	Banapura, (Barnaoda panchayat), Barod villages	Khandar (Sawai madhopur)	Night (Both cases)	Village	Not given		Leopard killed a cow's calf in barod, spotted in banapura	
R101	Dead Leopard	18-Dec-18	Bhagtol, (Ghatol forest range)	Ghatol (Banswara)	Dawn	Forest	Male		FD found scratches on its body and broken hind legs	
R102	Human attack	18-Dec-18	Jhotara ki rohi	Taranagar (Churu)	Dawn	Cropfield	Not given		Attacked on two males inside the cropfields and got killed in retaliation	Male; Adult
R103	Human attack	23-Dec-18	Laxmipura, (Ayana)	Pipaldia (Kota)	Not given	Cropfield	Not given		Attacked on a male who initially shouted after seeing the leopard, defense?	Male; Not given
R104	Dead Leopard	25-Dec-18	Upali odan road, (Nathdwara)	Nathdwara (Rajsamand)	Not given	Town	Not given		Leopard killed in road accident	
R105	Leopard sighting	27-Dec-18	Butati	Degana (Nagaur)	Day	Cropfield	Not given		Leopard spotted in puniya ki dhani	
R106	Dead Leopard	29-Dec-18	Vallabgram	Mandawar (Alwar)	Dawn	Open field	Not given			
R107	Leopard sighting	29-Dec-18	Mundwa	Mundwa (Nagaur)	Dawn	Mines	Not given		probably the same leopard spotted in butati village	
S1	Leopard sighting	03-Jan-17	Bishampur, (Arjunpura khalsa)	Pisangan (Ajmer)	Not given	Open field	Not given			
S2	Human attack; Captured	07-Jan-17	Manpura machedi	Amber (Jaipur)	Not given	Village	Not given	Leopard sight; Human attack	Captured by FD	Not given; Not given
S3	Dead Leopard	10-Jan-17	Tonkepora baleji, (Dhauraeta panchayat)	Mandrail (Karauli)	Dawn	Open field	Not given		Spotted by shepherds in an injured state, later leopard died	
S4	Human attack	20-Jan-17	Nada charanwas	Danta ramgarh (Sikar)	Day	Cropfield	Not given		Leopard attacked on 6 years old who was saved by his father	Male; Adult; Male; Young
S5	Human attack	Jan-17	Ojariya	Garhi (Banswara)	Dusk	Cropfield	Not given		Attacked on a female	Female; Young
S6	Livestock attack	01-Feb-17	Nawabpura ki dhani	Bhadesar (Chittorgarh)	Dusk	Village	Not given		Killed 5 goats	
S7	Livestock attack	06-Feb-17	Bheemapura		Night	Village	Not given		Killed 10 goats	
S8	Human attack	13-Feb-17	Jaitpur, (Silibaori panchayat, Sariska)	Thanagazi (Alwar)	Not given	Cropfield	Not given		Attacked on a female in cropfield and same day attacked on 2 other people, 2 victims died, declared man eater leopard and shooton sight is issued	Female; Adult; Not given; Not given
S9	Human attack; Dead Leopard	16-Feb-17	Bhanor, Kharpina villages	Salumbar & Girwa (Udaipur)	Dusk (Bhanor), Dawn (Kharpina)	Cropfield; Village	Not given		Attacked on a male and a female in bhanor, leopard died in road accident in kharpina	Male; Adult; Female; Adult
S10	Livestock attack; Captured	19-Feb-17	Banchhri, (Silibaori panchayat, Sariska)	Thanagazi (Alwar)	Night	Village	Female (Captured one)	Reason not given	Attacked on cow's calf and a dog, a female leopard was captured by FD a day before	
S10a	Captured	25-Feb-17	Silibaori area, Sariska	Thanagazi (Alwar)	Not given	Not given	Not given	Leopard sight	Leopard captured and thought to be the same man eater leopard	

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S11	Leopard sighting	26-Feb-17	Ghana magra, (Bhavi)	Bilara (Jodhpur)	Not given	Cropfield	Not given		Leopard inside a farm house from 2 days and killed 2 dogs , not captured	
S12	Human attack	Feb-17	Mathuravat, (Rajorgarh panchayat, Tehla)	Rajgarh (Alwar)	Not given	Cropfield	Not given		Attacked on female while she went for a check on livestock	Female; Adult
S13	Human attack	05-Mar-17	Bhadasiyan	Parbatsar (Nagaur)	Dawn	Village	Not given		Attacked on a male	Male; Not given
S14	Dead Leopard	06-Mar-17	Near galta temple	Sawai madhopur	Dawn	City	Male cub		Cub died after getting rescued	
S15	Leopard sighting	10-Mar-17	Kulish smriti van	Jaipur urban	Not given	Forest	Leopard couple and a cub		Entered and roaming around kulish van from few days, came from jhalana	
S16	Livestock attack	11-Mar-17	Pulan ki dhani, (Daulatpura)	Sapotra (Karauli)	Night	Village	Not given		Killed 14 sheep	
S17	Livestock attack; Captured	16-Mar-17	Gopalpura, (Sariska)	Thanagazi (Alwar)	Dawn (Captured), Night (Livestock attack)	Village	Not given	Livestock attack	Captured by FD and the night before it killed 3 goats	
S18	Dead Leopard	Mar-17	Baba kua forest, Garhi range	Garhi (Banswara)	Not given	Forest	Leopard cub		Probably died in clash with other leopard	
S19	Dead Leopard	02-Apr-17	Hamadpura, (Mohanpura panchayat)	Mandalgarh (Bhilwara)	Not given	Forest	Not given		Leopard hit by a train and died	
S20	Leopard sighting	10-Apr-17	Giriraj parikrma	Nathdwara (Rajsamand)	Dawn	Forest	Not given			
S21	Human attack	10-Apr-17	Anatpura, (Khandar range, Ranthambore)	Khandar (Sawai madhopur)	Dawn	Open field	Not given		Attacked on a male who was defecating in the open	Male; Adult
S22	Livestock attack	25-Apr-17	Baggar	Bhim (Rajsamand)	Night	Village	Not given		two leopards killed 18 sheep and 2 goats.	
S23	Human attack; Livestock attack	Apr-17	Jaspur	Aspur (Dungarpur)	Day	Forest	Female and two cubs		Attacked on two shepherds and also killed a goat	Male; Adult
S24	Livestock attack	Apr-17	Himmatsingh ka garha, (Asoda)	Garhi (Banswara)	Night	Village	Not given		Killed a cow's calf	
S25	Dead Leopard	03-May-17	Sanwata, (Talra range, Ranthambore)	Khandar (Sawai madhopur)	Not given	Open field	Not given		10 days old dead body, no conclusion of reason of death	
S26	Leopard sighting	21-May-17	Bonli	Bonli (Sawai madhopur)	Not given	Town	Not given			
S27	Livestock attack	22-May-17	Kumawato ki dhani, (Bhagwan nagar)	Jaipur urban	Night	City	Not given		Killed 2 goats	
S28	Leopard sighting	24-May-17	Bhawa	Rajsamand	Night	Village	Not given		Shepherd claimed to have seen leopard couple but others saw one leopard	
S29	Livestock attack	May-17	khoh nagoriyan	Sanganer (Jaipur)	Dusk	Village	Not given		Killed 7 goats	
S30	Human attack	May-17	Mohkimpura forest area	Kushalgarh (Banswara)	Dusk	Forest	Not given		Attacked on 3 males who stopped near forest while travelling on a bike	Male; Adult
S31	Leopard sighting	01-Jun-17	Ghat ki guni	Jaipur urban	Dusk	City	Not given		Jhalana is nearby	
S32	Leopard sighting	02-Jun-17	Khoonta	Dharyawad (Pratapgarh)	Dawn	Village	Not given		FD failed to capture the leopard	



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S33	Leopard sighting	05-Jun-17	Cement factory area	Sawai madhopur	Dawn	City	Not given		Leopard killed a cow's calf (maybe stray cow) and left the body there	
S34	Leopard sighting; Livestock attack	10-Jun-17	Kajawara	Salumbar (Udaipur)	Night	Village	Not given		Leopard spotted by owner which killed a cow too and escaped	
S35	Livestock attack	25-Jun-17	Himmatsingh ka garha, (Asoda)	Garhi (Banswara)	Dawn	Village	Not given		Killed a cow's calf	
S36	Dead Leopard	Jun-17	Navaghara	Garhi (Banswara)	Not given	Forest	Female		retaliatory killing of leopard by humans, FIR reported by people for animals	
S37	Livestock attack	Jun-17	varwasa mafi, (Sabilia)	Aspur (Dungarpur)	Night	Village	Not given		killed a cow's calf, earlier incidents too	
S38	Dead Leopard	Jun-17	Keora forest range, (Sarada)	Sarada (Udaipur)	Dusk	Forest	Female		Found dead in the forest, probably died of some disease	
S39	Human attack	01-Jul-17	Saroo	Girwa (Udaipur)	Not given	Not given	Not given		Killed a male	Male; Not given
S40	Human attack	08-Jul-17	Sela gurha	Amet (Rajsamand)	Night	Village	Not given		Attacked on a girl, saved by her father	Female; Young
S41	Human attack	10-Jul-17	Loharia para	Garhi (Banswara)	Night	Cropfield	Not given		Killed a 8 year old boy	Male; Young
S42	Leopard sighting	20-Jul-17	Sajjangarh	Udaipur	Not given	Forest	Not given			
S43	Human attack	21-Jul-17	Malakhera	Alwar	Not given	Forest	Not given		Attacked while 2 shepherds tried to save their livestock	Male; Not given
S44	Human attack; Captured	31-Jul-17	Sawai madhopur urban	Sawai madhopur	Not given	City	Not given	Human attack		Male; Not given; Female; Adult
S45	Rescued	Jul-17	Kunwariya town	Rajsamand	Dusk	Cropfield	Two cubs		Cubs fallen in a well, rescued by FD	
S46	Human attack	Jul-17	Kika ki naal, (Miyasa panchayat)	Ghatol (Banswara)	Dawn	Cropfield	Not given		attacked on two males in chilli cropfield	Male; Adult
S47	Livestock attack	Jul-17	Bagatpura, (Narana panchayat)	Deogarh (Rajsamand)	Night	Village	Not given		Attacked and killed 29 sheep and goats	
S48	Leopard sighting	04-Aug-17	Mira sahab dargah	Nainwa (Bundi)	Day	Forest	Not given		Inside Ramgarh wildlife sanctuary	
S49	Livestock attack	04-Aug-17	Damor pada, (Jaulana)	Garhi (Banswara)	Dawn	Village	Not given		Killed 3 goats	
S49a	Livestock attack	13-Aug-17	Aneli pada, (Bhatar panchayat, Jaulana)	Garhi (Banswara)	Dawn	Village	Not given		Killed 3 goats, villagers claimed that a female leopard gave birth to three cubs in nearby babakuan forest	
S50	Human attack	01-Sep-17	Galata	Jaipur urban	Dawn	Open field	Not given		Attacked on a male priest	Male; Adult
S51	Dead Leopard	03-Sep-17	Mundol panchayat	Rajsamand	Dawn	Cropfield	Not given		Found dead in a cropfield, probably died trying crossing the sidewall	
S52	Leopard sighting; Livestock attack	11-Sep-17	Talawadi, Banniwata (Jaulana)	Garhi (Banswara)	Night (Both cases)	Open field; Village	Not given		Leopard spotted in talawadi area under bushes; killed 2 goats in different houses in banniwata area	
S53	Rescued	12-Sep-17	Sakarda	Amet (Rajsamand)	Night	Cropfield	Not given		FD rescued the leopard from a well but it instantly ran away into the forest after getting out	
S54	Leopard sighting	12-Sep-17	Jawar mines	Girwa (Udaipur)	Not given	Village	Not given		Leopard got stucked in a room next to livestock shed, rescued by FD	

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S55	Livestock attack	17-Sep-17	Dungariatalai, (Jaulana)	Garhi (Banswara)	Night	Village	Not given		Killed 3 goats	
S56	Livestock attack	18-Sep-17	Kelwa	Rajsamand	Night	Town	Not given		Killed 7 goats	
S57	Livestock attack	26-Sep-17	Kelwa	Rajsamand	Night	Town	Not given		Killed 16 goats	
S58	Captured	06-Oct-17	Cement factory area	Sawai madhopur	Not given	City	Male and a female	Leopard sight	Captured by FD, few others roaming the area	
S59	Rescued	08-Oct-17	Trilokpura, (Raisar panchayat)	Jamwa rangarh (Jaipur)	Not given	Village	Not given		Found in a well, Rescued by FD	
S60	Dead Leopard	24-Oct-17	Fiawadi, Rajsamand Bhiwara highway	Rajsamand	Dusk	Not given	Female		Leopard died in a road accident	
S61	Leopard sighting	31-Oct-17	Kulish smriti van	Jaipur urban	Not given	City	Not given		Spotted in university area, Jhalana is nearby	
S62	Captured	31-Oct-17	Goradia ka bhiwara dhani, (Samicha panchayat)	Kumbhalgarh (Rajsamand)	Dusk	Village	Not given	Livestock attack	was killing livestock from past few days, captured by FD	
S63	Rescued	21-Nov-17	Kelwa	Rajsamand	Dawn	Mines	Cub		It was found diseased and taken for medical care	
S64	Leopard sighting; Rescued	21-Nov-17	Jawas	Kherwara (Udaipur)	Not given	Open field	Cub		Spotted in the mountains, cub was diseased and rescued for medical care	
S65	Livestock attack	25-Nov-17	Jaisinghpura khor, (Brahmapuri)	Jaipur urban	Not given	Village	Not given		Killed 2 cows	
S66	Dead Leopard	06-Dec-17	Jawahar nagar	Jaipur urban	Not given	Forest	Not given		Probably died in a clash with other leopard	
S67	Rescued	09-Dec-17	Mahudi	Girwa (Udaipur)	Not given	Forest	Not given		leopard was spotted as villagers trapped in poachers trap and rescued by FD, taken to udaipur biological park	
S68	Dead Leopard	10-Dec-17	Jaitgarh (Sarveena panchayat)	Beawar (Ajmer)	Not given	Cropfield	Not given		Leopard dead body found in a well without a head, probably killed, Jawaja forest area is nearby	
S69	Dead Leopard	11-Dec-17	Gulzar-bagh, (Aligarh)	Uniar (Tonk)	Dawn	Forest	Not given		Leopard hit by train on Delhi Mumbai tracks	
S70	Leopard sighting	12-Dec-17	Birantiya kalan, (Sendra)	Raipur (Pali)	Dusk	Cropfield	Not given		Leopard spotted by farmer, probably came for livestock tied nearby, rescue team came and leopard escaped	
S71	Dead Leopard	13-Dec-17	Pachmata	Nasirabad (Ajmer)	Dawn	Open field	Not given		Leopard found injured near a mountain, there were cuts on its front paw and body, probably attacked by someone/some poacher, FD tranquilized it and after a while the leopard died, state FD animals census marked zero number of leopards in the nearby forest area.	
S72	Human attack	14-Dec-17	Bhainsa kamed	Khammor (Rajsamand)	Night	Forest	Not given		Attacked and killed on a female who was alone crossing the forest area in the dark	Female; Adult
S73	Leopard sighting	22-Dec-17	Gogunda town	Gogunda (Udaipur)	Day	Town; Cropfield	Not given		Leopard entered meghwal basti in gogunda and got spotted by many, people retaliated with sticks and stones and leopard hid out in nearby cropfield, rescue is going on , conclusion of rescue is not given.	
S74	Dead Leopard	26-Dec-17	Sendra	Raipur (Pali)	Night	Open field	Female		Leopard killed in a road accident	



Unique ID	Type of incident	Date published	Village name	Tehsil/District	Time of incident	Habitat/Area	Sex of leopard	Reason for capture	Comments	Description of human attacks
S75	Captured	29-Dec-17	Bama (Kaladera), Jawahar nagar	Amber & Jaipur Urban (Jaipur)	Not given	City	Not given	Leopard sight	Captured in both cases. Leopard prince came in jagatpura from Jhalana	
T1	Leopard sighting	01-Jan-16	Baba kuan forest, garhi range, Jaulana	Garhi (Banswara)	Not given	Forest	Not given		Two leopards spotted by FD worker nearan installed cage, a dog was also tied up in the cage	
T2	Dead Leopard	01-Jan-16	Gothra	Aspur (Dungarpur)	Not given	Forest	Male		Cause of death is not concluded	
T3	Dead Leopard	02-Jan-16	sayra (rankapur)	Desuri (Pali)	Not given	Not given	Female		Leopard died in a road accident	
T4	Human attack; Livestock attack	03-Jan-16	Pheela (Girwa), Shyampura (Jaisamand)	Girwa & Salumber (Udaipur)	Day (Pheela), Night (Shyampura)	Cropfield	Not given		Attacked on a female while she was on herding activity (Pheela), attacked on a male who was guarding cropfield in the night (Shyampura)	Female; Adult; Male; Adult
T5	Human attack; Livestock attack	05-Jan-16	Bemla, Barapal, Nal kagurha (Bhindar), Gurli	Girwa (Udaipur)	Night (Bemla, Nal ka gurha)	Village; Mines	Female with 2cubs (Bemla)		Female leopard with two cubs attacked and killed 5 goats in livestock shyed in Aada talai falan, Bemla; Leopard killed a cow in Gameti basti, Gurli; Leopard attacked a female in mines area, Nal ka gurha (Bhindar); Leopard attacked a female in Geengla falan; Leopard chased a female and a girl in barapal, all human victims lived	Female; Adult; Female; Young
T6	Dead Leopard	08-Jan-16	Rajsamand lake	Rajsamand	Dawn	Open field	Not given		Last meal of aodog, no signs of poachers	
T7	Leopard sighting; Livestock attack	08-Jan-16	Tantiya, Kharodiya	Aspur (Dungarpur)	Dawn (Tantiya), Dusk (Kharodiya)	Open field	Not given		Leopard killed a livestock cow in Tantiya, claimed to be though; two leopards spotted in a cropfield, they later vanished away	
T8	Leopard sighting; Human attack	09-Jan-16	Usar, Giriraj parikrama (Nathdwara)	Kumbhalgarh & Nathdwara (Rajsamand)	Dusk (GP)	Forest	Not given		Leopard attacked and killed a girl in Usr 3 days before, Leopard also spotted by many people at giriraj parikrama, Nathwara	Female; Young
T9	Human attack	10-Jan-16	Baroda	Aspur (Dungarpur)	Day	Open field	Not given		attacked on a female while she was defecating	Female; Adult
T10	Human attack	12-Jan-16	Nimbada talab, Kelwa	Rajsamand	Dusk	Open field	Not given		Attacked on a male who was on a bike	Male; Adult
T11	Livestock attack	13-Jan-16	Jatwara kalan	Sawai madhopur	Dawn	Village	Not given		Killed a cow's calf	
T12	Captured	19-Jan-16	Usar	Kumbhalgarh (Rajsamand)	Night	Forest	Female	Human attack	Probably the same leopard which killed a girl in usar few days back	
T13	Leopard sighting	24-Jan-16	Cement factory (Batherdal), Gopal temple (Sawai madhopur)	Sawai madhopur	Night (CF), Dusk (GT)	Cropfield; Open field	Not given		Leopard spotted at each place	
T14	Captured	26-Jan-16	Usar	Kumbhalgarh (Rajsamand)	Night	Forest	Not given	Leopard sight	Another leopard captured by FD in usr after the female leopard, release site is not mentioned, Villagers were creating nuisance to see the leopard.	
T15	Rescued	29-Jan-16	Nal	Banswara	Night	Forest	Not given		Leopard came out in search of water and fallen in an open well, FD came but due to lack of resources could not rescue the leopard for hours.	

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T16	Leopard sighting; Livestock attack	Jan-16	Rakampura	Amet (Rajsamand)	Dawn	Village	Not given		Leopard attacked and killed 2 cow's calf in a livestock shed early morning, also spotted by some villagers, earlier recent attacks on goats and dogs too happened.	
T17	Captured	Jan-16	Janawad	Kumbhalgarh (Rajsamand)	Dusk	Village	Not given	Leopard sight	Leopard captured by FD in Janawad, third in row, villagers have claimed to have seen 3 more leopards, leopards residing in sugarcane fields	
T18	Human attack	06-Feb-16	Dolpura bandh, Was	Reodar (Sirohi)	Dawn	Cropfield	Not given		Leopard found in a cropfield in dolpura bandh which attacked two males in there and escaped, later on found again in a cropfield in wasa villager where it again attacked on two FD workers, All victims lived	Male; Adult
T19	Human attack	09-Feb-16	Ratadiya	Raipur (Pali)	Night	Forest	Not given		Attacked on two males while they were on a bike	Male; Adult; Male; Young
T20	Livestock attack	09-Feb-16	Kahela	Sagwara (Dungarpur)	Night	Village	Not given		Killed 2 goats	
T21	Human attack	10-Feb-16	Van, kailashnagar	Sheoganj (Sirohi)	Day	Open field	Not given		Attacked on a shepherd on herding activity	Male; Not given
T22	Livestock attack	13-Feb-16	Manpura, Sumel	Raipur (Pali)	Not given	Not given	Not given		Leopard claimed to be moving around the mentioned villages and also killing livestock, Sendra forest is nearby harboring many leopards.	
T23	Livestock attack; Human attack; Captured	14-Feb-16	Lalpura	Raipur (Pali)	Night	Village	Not given	Livestock attack	Leopard (8 years old) entered in a livestock shed in the night and killed 2 goats but spotted by the owner and other villagers, so in defense the leopard attacked the owner and after that villagers captured him in a room by lighting fire around on their own and called FD, leopard rescued and taken to Jodhpur for medical care, found to have injury on the head.	Male; Adult
T24	Leopard sighting	15-Feb-16	Ratadiya	Raipur (Pali)	Night	Forest	Not given		Leopard spotted by a male who was coming on a bike near bari valley	
T25	Livestock attack	15-Feb-16	Bhoongra	Ghatol (Banswara)	Night	Village	Not given		Killed a cow	
T26	Livestock attack	16-Feb-16	Dhayla, Raoji ka bariya, Bhagal (kelwa)	Nathdwara, Bhim & Rajsamand	Night (Dhayla, RKB), Dawn (kelwa)	Village; Town	Not given		Attacked and tried to kill a cow's calf but spotted (Dhayla), killed 4 goats in raoji ka bariya, killed a cow in kelwa	
T27	Dead Leopard	18-Feb-16	Sukh naka, Jojawar forest range (Bhim)	Girwa (Udaipur) & Bhim (Rajsamand)	Night (Jojawar)	Cropfield; Forest	Female cub (Both cases)		Female leopard cub (1.5 years old) found dead in a well in a farm house in sukha naka; female leopard cub (2 years old) got hit by a vehicle in jojawar forest range near bhim and died	
T28	Captured	20-Feb-16	Sabla	Aspur (Dungarpur)	Not given	Village	Male	Livestock attack	Captured by FD, was killing livestock in the area	
T29	Human attack	21-Feb-16	Jhabra	Shergarh (Jodhpur)	Not given	Cropfield	Not given		Attacked on a female and 3 others in cropfields and forest, capture ops are failing	Female; Not given
T30	Rescued	22-Feb-16	Jaisinghpura khor	Jaipur urban	Dawn	Village	Female		Found trapped in a poachers iron trap near jogiyo ki dhani, spotted by villagers and rescued by FD	



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T31	Leopard sighting	23-Feb-16	Ramgarh	Raipur (Pali)	Day	Open field	Not given		Leopard spotted by villagers which later vanished away, very poor FD resources in the area	
T32	Dead Leopard	23-Feb-16	Amartiya	Kumbhalgarh (Rajsamand)	Not given	Village	Female		Leopard killed in a road accident	
T34	Rescued	26-Feb-16	Banrol	Rajsamand	Dawn	Cropfield	Cub		Leopard cub (3 months old) found alone near cropfields by villagers and rescued by them, later they informed FD about the incident and will be released in the same forest later, separated from his mother the previous night.	
T35	Dead Leopard	26-Feb-16	Jhadoli	Dhariyawad (Pratapgarh)	Dawn	Forest	Female		Leopard killed in a road accident	
T36	Livestock attack; Rescued	29-Feb-16	Kodwadiya nayaghar, Mawli road, Rajsamand/ Viyal (Badgaon)	Nathdwara (Rajsamand) & Bargaon (Udaipur)	Dawn (Rajsamand), Night (Udaipur)	Cropfield; Village	Not given		Leopard trapped in an iron trap installed by poachers near a cropfield in kodwadiya, Nathdwara, Rescued by FD on time and taken to udaipur for medical care; Leopard entered a goshala in Viyal village and attacked and killed 2 cows and a calf , escaped later on without the kill.	
T37	Leopard sighting	Feb-16	Rajaliya	Nawa (Nagaur)	Dusk	Forest	Not given		Many sheep and goats killed by leopard in the forest, owner was not there, happened nearby degana	
T38	Livestock attack	Feb-16	Degana	Degana (Nagaur)	Dusk	Forest	Not given		5-7 years old leopard found dead, reason of death is inconclusive	
T39	Dead Leopard	02-Mar-16	Salawali	Neem ka thana (Sikar)	Not given	Open field	Not given		Attacked on a male and a female inside the house and escaped	Male; Adult; Female; Adult
T40	Human attack	04-Mar-16	Mandak ka gurha	Khamnor (Rajsamand)	Night	Village	Not given		Female leopard cub found dead in an iron trap in a cropfield, wires slither throat, FD not sure yet whether trap was installed for a leopard (Asan) ; FD spotted a female leopard with her cubs in Saredi just a few days back.	
T41	Leopard sighting; Dead Leopard	04-Mar-16	Asan (Garhi range); Saredi	Garhi (Banswara)	Not given	Cropfield	Female cub (Asan), Female with cubs (Saredi)		In afternoon, Leopard attacked on a girl in the cropfield, she cried and family came started beating the leopard with sugarcane sticks till death, victim girl lived.	Male; Adult; Female; Young
T42	Human attack; Dead Leopard	05-Mar-16	Bujhra	Deogarh (Rajsamand)	Day	Cropfield	Not given		Leopard attacked on a female when she was working in the cropfield in the afternoon and then attacked on another male who came in defense, both victims lived.	Male; Adult; Female; Adult
T43	Human attack	05-Mar-16	Umri	Mandal (Bhilwara)	Day	Cropfield	Not given		Leopard attacked a wardpanch in afternoon when he went for bathroom in the open behind atal sewa kendra, bansiya, Later the leopard hid in the nearby wooden block and continuously got pelted by stones from villagers, FD arrived late and big ruckus went on, scared leopard attacked on a FD worker too, details of capture not given	Male; Adult
T44	Human attack	05-Mar-16	Bansiya	Simalwara (Dungarpur)	Day	Village	Not given			

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T45	Leopard sighting	06-Mar-16	Gudla ; Barar	Nathdwara & Bhim (Rajsamand)	Night & Dawn (Gudla), Night (Barar)	Cropfield; Village	Not given		Leopard spotted in a wheat cropfield in midnight at gudla who was found in an abandoned house next morning, villagers got curious to see by themselves causing risk of attack; Leopard spotted by a male outside his house when he went for a bathroom in the midnight, nothing else happened.	
T46	Leopard sighting	07-Mar-16	Maldeta	Baytoo (Barmer)	Day	Village	Not given		Leopard entered in an under construction home and spotted in the afternoon by the workers, FD informed but arrived late and arranged a rescue operation till evening, leopard vanished from the home.	
T47	Human attack	08-Mar-16	Seengatwara	Sarada (Udaipur)	Day	Cropfield	Not given		Leopard attacked 3 males in the afternoon in a wheat cropfield , victims lived, FD informed, came late and rescue operation was too loose, Leopard vanished away.	Male; Adult
T48	Rescued	09-Mar-16	Ghat ke balaji, Galata	Jajpur urban	Dawn	Forest	Cub		Leopard cub spotted by two civilians at ghat ke balaji who got separated from his mother, Rescued by FD and taken to Jaipur zoo instead of searching for the mother.	
T49	Leopard sighting	09-Mar-16	Seengatwara	Sarada (Udaipur)	Dawn	Cropfield	Not given		Probably the same leopard which attacked 3 males earlier here	
T50	Livestock attack	11-Mar-16	Samod	Chomu (Jaipur)	Night	Village	Not given		Multiple livestock kill by Leopard, Killed dog too, Pugmarks found near Police station.	
T51	Livestock attack	12-Mar-16	Ramoravrali		Night	Cropfield	Not given		Leopard attacked and killed livestock and pet dog too in the night, FD informed but totally unreliable, None arrangements were made.	
T52	Human attack	15-Mar-16	Tejafala (Salumbar)	Salumbar (Udaipur)	Day	Cropfield	Not given		Leopard attacked 4 villagers who were working in the cropfields in the afternoon, Later attacked FD guard too, all victims lived.	Male; Adult
T53	Human attack	16-Mar-16	Nithaua	Aspur (Dungarpur)	Day	Village	Not given		Leopard came into the village in the afternoon and attacked few people in the ruckus, escaped away.	Not given; Not given
T54	Captured	16-Mar-16	Shrimadhpor	Sri madhopur (Sikar)	Not given	Town	Not given	Human attack	found inside a house in shrimadhpor	
T55	Livestock attack	19-Mar-16	Padakhora	Pratapgarh	Night	Village	Not given		Killed a goat and cow	
T56	Rescued	22-Mar-16	Raiyana (Babakua forest)	Garhi (Banswara)	Dawn	Cropfield	Cub		Leopard cub (weeks old) found in a corn cropfield in the morning by the villagers who got separated from his mother previous night, babakua forest is just nearby, FD informed who waited for mother to come and rescue her cub.	
T57	Human attack	Mar-16	Goma ka bariya	Mandal (Bhilwara)	Dusk	Village	Not given		Leopard entered in the village in the evening and attacked on few people, ruckus created, later escaped into the forest	Male; Adult
T58	Leopard sighting	Mar-16	Gyangarh	Mandal (Bhilwara)	Not given	Village	Not given		Leopard spotted by a male and then he instantly ran away inside a room, leopard was just standing there and went back into the forest.	



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T59	Livestock attack	Mar-16	Mandal	Mandal (Bhilwara)	Not given	Town	Not given		Killed a cow's calf	
T60	Leopard sighting	03-Apr-16	Nareli	Mandal (Bhilwara)	Day	Mines	Two cubs			
T61	Leopard sighting	04-Apr-16	Thurpal pahadi, Palthur- dhendlaawa	Aspur (Dungarpur)	Not given	Open field	Female with two cubs		Female leopard with her 2 cubs was spotted by few people on thurpal pahadi, they went near to scare her away and mother attacked in defense.	
T62	Leopard sighting; Livestock attack	05-Apr-16	Naka bazar bridge, Seenghatwara; Maruwas	Sarada & Mavli (Udaipur)	Night (Maruwas)	Village	Not given		Leopard spotted by people in naka bazaar bridge at singhatwara for two consecutive days who killed a stray cow over there, stones pelted by the people to scare it away; Leopard killed a cow's calf in a livestock shed in the night	
T63	Leopard sighting	07-Apr-16	Malika khara	Asind (Bhilwara)	Dawn	Village	Not given		Leopard entered in the village, ruckus happened whereby many people pelted sticks and stones towards the leopard and locked it inside a bathroom and called FD.	
T64	Human attack	09-Apr-16	Khamnor	Khamnor (Rajsamand)	Night	Cropfield	Not given		Leopard sneaked in midnight in a sugarcane cropfield and took a boy who was sleeping their with his parents in the midnight, killed him , family woke up and spotted leopard nearby the deadbody who immediately escaped away.	Male; Infant
T65	Livestock attack	10-Apr-16	Badnor	Asind (Bhilwara)	Night	Cropfield; Village	Not given		Two cases whereby leopard killed a cow in a livestock shed and in another one killed a goat in a cropfield in the night.	
T66	Leopard sighting	10-Apr-16	Khamnor	Khamnor (Rajsamand)	Dusk	Cropfield	Not given		Leopard again spotted inside the sugarcane cropfields, killed a boy a few days a back.	
T67	Livestock attack	10-Apr-16	Anandsagar forest area	Banswara	Night	Forest	Not given		Killed a goat	
T68	Human attack	13-Apr-16	Magrawali thori	Sarada (Udaipur)	Dusk	Open field	Not given		Leopard entered in a livestock shed but got noticed so villagers chased it to the mountains to beat and got attack by the leopard, none killed, past killings of livestock happened.	Male; Adult; Male; Young
T69	Dead Leopard	15-Apr-16	Bokarsel	Aspur (Dungarpur)	Not given	Open field	Not given		Dead body found in a very poor state, sex could not be identified	
T70	Human attack	16-Apr-16	Harnawada shahiji	Chhipabarod (Baran)	Dawn	Cropfield	Not given		Leopard attacked on a female inside an eggplant cropfield while she was working, attacked few others and FD after ruckus and escaped, none killed, FD failing to capture.	Female; Adult
T71	Leopard sighting	18-Apr-16	Rathodo ka guda (Shishoda)	Khamnor (Rajsamand)	Dawn	Open field	Not given		Leopard spotted by the villagers on nearby mountain in the morning, they tried to chase it and beat it with sticks and stones, leopard escaped away.	
T72	Livestock attack	19-Apr-16	Chat sardarpura	Nasirabad (Ajmer)	Dawn	Village	Not given		Killed a cow's calf	
T73	Leopard sighting; Livestock attack	28-Apr-16	Bagatpura	Railmagra (Rajsamand)	Day	Cropfield	Not given		Leopard spotted by a villager who was working in his fodder cropfield in the afternoon, other one claimed that leopard eaten his two dogs and two cow's calves	

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T74	Livestock attack	28-Apr-16	Parda sakani	Aspur (Dungarpur)	Night	Village	Not given		Killed a goat	
T75	Leopard sighting	Apr-16	Ganoda	Ghatol (Banswara)	Dusk	Village	Not given		Villagers scared away the leopard which then escaped away	
T76	Human attack	Apr-16	Tetiya dev forest area, Kushalgarh	Kushalgarh (Banswara)	Day	Forest	Not given		Leopard attacked on an old shepherd who was in the forest for herding activity, victim lived	Male; Adult
T77	Livestock attack	Apr-16	Biliyawas	Bhim (Rajsamand)	Not given	Forest	Not given		Killed a goat, Owner was not there	
T78	Dead Leopard	Apr-16	Shripura forest chowki,	Chittorgarh road	Night	Forest	Female		Killed in a road accident	
T79	Livestock attack	Apr-16	Bherukheda	Deogarh (Rajsamand)	Day	Cropfield	Female		Female leopard attacked on a goat in a cropfield and hid in a nearby canal for whole day, FD arrived very late and while rescuing in the night, leopard ran away in to the forest	
T80	Human attack	Apr-16	Navaghara	Garhi (Banswara)	Day	Cropfield	Not given		Leopard attacked 2 males in a sugarcane cropfield and hid in a tree, FD failing to capture and later on leopard escaped into the forest.	Male; Adult; Male; Young
T81	Leopard sighting; Rescued	04-May-16	Deoriya (Kunwariya)/ Hindustan zinc road (Sakroda)	Deogarh (Rajsamand), Girwa (Udaipur)	Not given	Village; Forest	Cub (Deoriya)		Leopard cub (1 year old) fallen in a well and later rescued by FD, will be released in the forests (not mentioned) (Deoriya)/ Two leopards been spotted at Hindustan zinc road near sakroda	
T82	Rescued	06-May-16	Kankrolli town	Rajsamand	Day	Town	Cub		4 months old leopard cub came at JK KANKROLI ROAD in the afternoon , got separated from the mother, FD could not rescue the cub for hours, very unreliable.	
T83	Leopard sighting	09-May-16	Taragarh- Happy valley	Ajmer	Not given	Forest	Not given		Leopard spotted at the mentioned area by two males with a goat catch, escaped away after getting noticed.	
T84	Livestock attack	14-May-16	Teori	Viratnagar (Jaipur)	Night	Village	Not given		Attacked a cow's calf but got spotted by villagers , they pelted stones and leopard ran away without the calf	
T85	Dead Leopard	17-May-16	Kachabali	Bhim (Rajsamand)	Not given	Village	Not given		Two males killed a leopard (1.5 years old) in huge retaliation . All the others enjoyed it , clicked selfies with the dead leopard, FD being questioned.	
T86	Rescued	29-May-16	Lakarwas	Girwa (Udaipur)	Dawn	Cropfield	Female		Female leopard (2 years old) found by the villagers in a deep injured state, informed FD and rescued, taken to udaipur biological park for medical care, Leopard was highly injured and famished.	
T87	Human attack	04-Jun-16	Indali	Jhunjhunu	Dawn	Cropfield	Not given		Attacked a male in millet cropfield	Male; Adult
T88	Human attack; Captured	06-Jun-16	Keaharpura kalan	Chirawa (Jhunjhunu)	Not given	Cropfield	Not given	Human attack	FD teams from Jaipur and sariska capture the same leopard from keaharpura kalan in a millet cropfield, reported to have attacked another male on second day	Male; Not given
T89	Human attack	07-Jun-16	Dholiya	Lasadiya (Udaipur)	Night	Cropfield	Not given		Leopard sneaked in a house and took a 7 year old girl while she was sleeping at midnight, girl died	Female; Young



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T90	Livestock attack	28-Jun-16	Akodara	Vallabh Nagar (Udaipur)	Dawn	Village	Not given		Killed 3 cows	
T91	Rescued	29-Jun-16	Tonk	Tonk	Not given	Not given	Not given		Leopard beaten badly by the people till almost died , FD rescued and took it to jaipur zoo for medical care	
T92	Human attack	Jun-16	Lauwa	Salumbar (Udaipur)	Dawn	Village	Not given		Leopard attacked on a 8 year old boy and his uncle came for defense, leopard escaped away.	Male; Adult; Male; Young
T93	Dead Leopard	Jun-16	Jhali ka gurha	Girwa (Udaipur)	Night	Village	Not given		Leopard entered inside the village in night, villagers instantly started pelting stones deeply injuring the leopard and ultimately killed and torched it, FD totally unreliable, did nothing	
T94	Dead Leopard	Jun-16	Khole ke Hanumanji temple	Jaipur urban	Not given	City	Cub		Leopard cub found dead in the parking of mentioned area, no injuries or disease found, probably died due to hunger and thirst, Jhalana is nearby	
T95	Dead Leopard	Jun-16	Aamka Jhahira, Masalpur	Karauli	Not given	Not given	Not given		Leopards found dead at both the respective places, FD being questioned as they did not have any information regarding this, do not even have idea of cause of deaths	
T96	Human attack	Jun-16	Jhanjhar mines, Kelwa	Rajsamand	Not given	Town	Not given		Leopard attacked on an old male and escaped away, victim lived	Male; Adult
T97	Human attack	Jun-16	Chitar ki nal (Kumbhalgarh)	Kumbhalgarh (Rajsamand)	Night	Village	Not given		Attacked and killed a girl	Female; Young
T98	Rescued	12-Jul-16	Bahadurpura	Abu road (Sirohi)	Dawn	Cropfield	Female		Female leopard cub (1.5 years old) fallen in a well in a cropfield, Rescued by FD team from udaipur and taken to Mount abu for medical care, will be released in Abu forest.	
T99	Dead Leopard	18-Jul-16	Sundarcha	Rajsamand	Not given	Open field	Male		Male leopard (5years old) found dead in a bad condition, All nails were gone so probably poached.	
T100	Livestock attack	25-Jul-16	Thola ghata		Night	Village	Adult with a cub		Killed 16 goats	
T101	Leopard sighting	Jul-16	Hareli (Karanpur)	Garhi (Banswara)	Dusk	Village	Not given		Leopard spotted by villagers in the evening, nothing happened, FD informed but no reply from their side	
T102	Rescued	Jul-16	Leelera (Delwara)	Girwa (Udaipur)	Dawn	Village	Not given		Leopard hit by a vehicle on highway, rescued and taken to sajangarh biological park for medical care	
T103	Human attack; Captured	21-Oct-16	Bhadach, Doomroli	Thanagazi and Behror (Alwar)	Dusk (Bhadach)	Cropfield	Not given	Human attack	Leopard attacked and killed a female working in a cropfield in the evening in Bhadach; earlier a leopard also killed a male in Doomroli again in a cropfield, that leopard was captured by FD	Male; Adult; Female; Adult
T104	Human attack	31-Oct-16	Aamka	Thanagazi (Alwar)	Dawn	Open field	Not given		Leopard attacked a female while she was defecating in the morning, victim lived	Female; Adult
T105	Livestock attack	07-Nov-16	Sherawatwara, (Debari)	Girwa (Udaipur)	Night	Town	Leopard couple with two cubs		Killed goats and cow's calf	

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T106	Captured	06-Nov-16	Narsingh basni	Riyan badi (Nagsaur)	Dawn	Cropfield	Not given	Leopard sight	Leopard spotted by a male in cropfield in the morning, rescue team came from Jaipur and captured it, will be released in Todgarh wildlife sanctuary	
T107	Rescued	11-Nov-16	Aamka	Thanagazi (Alwar)	Not given	Village	Not given		Highly injured leopard found in aamka, rescued and taken to Jaipur for medical care, probably beaten by sticks and stones from villagers, head was totally injured	
T108	Leopard sighting	26-Nov-16	Cement factory	Sawai madhopur	Night	Power plant	Leopard couple with two cubs			
T109	Captured	26-Nov-16	Jatav basti bharatpur	Bharatpur	Dawn	City	Male	Leopard sight	Male leopard spotted by a male in the morning while and leopard attacked in reflex, ruckus created and after so much time rescued by FD and transferred to sariska tiger reserve.	
T110	Leopard sighting	Nov-16	Duwawa	Chitorgarh	Dusk	Cropfield	Not given		Leopard spotted by male in a cropfield, leopard then hid in a tree and stayed there for hours, FD keeping a check of any bad happening, nothing happened	
T111	Dead Leopard	01-Dec-16	Khadki bridge, Sendra	Raipur (Pali)	Dawn	Forest	Not given		Leopard (5 years old) found dead with injuries over the body and lost nails, a goat dead body was also lying nearby but not injured at all, probably killed by poachers/villagers.	
T112	Rescued	22-Dec-16	Dasaliya forest range, Dabi	Bundi	Day	Forest	Male		Male leopard (7 years old) found trapped in an iron trap installed by poachers/hunters, rescued by FD and taken to kota zoo for medical care.	
T113	Leopard sighting	23-Dec-16	Rajasthan university	Jaipur urban	Dawn	City	Cub		Rescued by FD	
T114	Leopard sighting	23-Dec-16	Purani ghati, Shahabad	Shahabad (Baran)	Not given	Forest	Not given		Multiple sights of leopard at purani ghati of shahabad, good news for wildlife lovers and others, people seems to be happy.	
T115	Leopard sighting	30-Dec-16	Ajitgarh	Sri madhopur (Sikar)	Night	Town	Not given		Leopard spotted in CCTV camera in the midnight at ajitgarh	
T116	Leopard sighting	Dec-16	Sarangpura	Vallabh Nagar (Udaipur)	Day	Cropfield	Not given		Leopard spotted by villagers in mustard cropfield , FD arrived and keeping a check, Leopard escaped away	
T117	Dead Leopard	Dec-16	Hameerpur (Bansur)	Bansur (Alwar)	Dusk	Village	Not given		Leopard found dead, no injuries on the body, villagers informed FD of leopard spotting few days back but was not captured	
T118	Leopard sighting	Dec-16	Sports complex, Rajasthan University	Dawn	Residential area	City				





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