TIGER MORTALITY, (FROM 9-11-2000 TO 25-5-2013), IN CORBETT TIGER RESERVE, RAMNAGAR, UK, INDIA. A DATA ANALYSIS FOR ECOLOGICAL NEED OF PANTHERA TIGRIS.

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Abstract— Tiger conservation is a big issue now a day not only in Indian counterpart but all around the world. Livestock predation is important issue to develop the negative attitude of people towards tiger while on the other hand the ecological cum vital need compel the tiger to move out in human-dominated landscape is another kind of trouble for both the tiger and mankind in reserve and its periphery. Disturbance in carrying capacity of area leads mortality situation, Struggle for existence is a natural phenomenon for vital need. Gujjars are based on milk i.e. cattle. At least minimum 50 buffaloes are rearing and practicing grazing illegally in parks which leads conflict and die heart situation for both man & animals. On the other hand the Kosi corridor near about vanishing day by day so in and fro movement of wildlife is blocked between Corbett tiger reserve & Ramnagar forest division. Such types of situation affect the genetic viability with conservation point of view and vital ecological need for big cat.

I. INTRODUCTION

- Tiger is a territorial animal. They mark their boundary. So inter specific as well as intra specific struggle is very common. On the other hand the mortality rate is very high. Other sympatric species like Leopard (Panthera pardus) mostly found to kill tiger cubs. Leopard is very furious to take out the prey. Prey depletion and prey abundance is an important factor for survival of tiger in wild.214 tiger and 117 Leopard are dwelling in the area of 1524 sq.km as per official report. So total overall 214+117=331 big cats are present in the area of 1524 sq. km. If the area is divided by the number of total animals than we can assure or calculate the area for one big cat i.e.1524/331=4.6km. Near about 4-5 km. is available for

one big cat along with other wild animal. So if carrying capacity will disturb than chances of survival for big cat will decrease. A chance of poaching (poisoning) is very less or even no in Corbett. Table 1 shows the cause of tiger death most of cases depicts the fighting. In mating season the territorial fight and mating struggle is very common but distribution of area is less so chances of natural fight leads death or mortality in tiger and big cats.

II. MATERIALS AND METHODS-

Study material is tiger mortality data collected from Corbett official research range. Over all near about 13 year data had been collected for current study. After analysis of all data, year wise data had been graphically presented (Table 1).

Study area- Corbett Tiger Reserve, the beautiful land of roar is chosen for this study.

Table 1- Details of Tiger Death Cases From 9-11-2011 to 27-5-2013 in Corbett Tiger Reserve Ramnagar

S.No	Species	Date	Cause of	Place/Area
	& Sex		Death	
1	Tiger	5-3-	Infighting	Dhikala
	(M)	2001	to other	Ranj.Leedkhal
			tiger	iya ,inside
				road
2	Tiger(M)	11-4-	fighting	Dhela &
		2001		Bijrani
				ranj,kaasarwa
				Sot
3	Tiger(F)	16-	Brain	Palain
		12-	Hemorrhag	ranj.Mandalty
		2001	e	C.No.9

4	Tiger(F)	26-5-	Injury of	Mandal
		2002	Neck	ranj.sankar
5	Tiger (F)	17-8-	fighting	Beet Kala
3	riger (r)	2002	ngning	garh
		2002		Nalk
				atta
				C.No
				,8&9
6	Tiger(F)	23-4-	Disease of	Kala
		2003	Intestine	garh
				ranj. Nee
				m
				Sot
7	Tiger	7-1-	Killed by	Kalgarh
	cub(F)	2004	Male tiger	ranj.Nal
				katta
				Block
8	Tigor	9-1-	Killed by	C.No-8 Kalagarh
0	Tiger Cub(F)	2004	Male tiger	ranj.Nalkatta
	Cub(1)	2004	wate tiget	Block C.No-9
9	Tiger (F)	26-1-	Injured	Bijrani
		2004	3	ranj
				.Malani
				C.No 13
10	Tiger(M)	11-2-	Natural	Jhirana
		2004		ranj.Jhir na Block
				C.No.8
11	Tiger(F)	9-1-	fighting	Bijrani
		2006		ranj.Mal
				ani
				BlockC.
10	TF: (TF)	26.2	C* 1 .*	No.19
12	Tiger(F)	26-2- 2006	fighting	Dhelaranj
		2000		SawaldeBlock
				C.No.5
13	Tiger(F)	7-3-	fighting	Dhela
		2006		ranj.
				Dhela
				Hill
				BlockC.
14	Tiger	3-1-	Killed by	No.10 Sarpdulli
14	Cub(F)	2007	crocodile	ranj.
	(-)	,		Near
				Champion
				pul
15	Tiger(F)	20-1-	Hypovolu	Maida
		2007	mic shock	van
				ranj.

				Near
				Manda
				1 river
16	Tiger	15-6-	Totally	Dhela
	Cub(F)	2007	putrified	ranj.
	. ,		•	DhelaHi
				11
				BlockC.
				No.2&8
17	Tiger(M)	22-9-	Natural	Kalagar
- ,	11801(111)	2007	1 (000101	h ranj.
		2007		Dhara
				BlockC.
				No13
18	Tiger(F)	31-	fighting	Kalagar
10	11801(1)	10-	ngming	h ranj.
		2007		Paterpan
		2007		i
				BlockC.
				No18
19	Tiger(M)	31/1-	fighting	Sonanad
17	Tigor(ivi)	11-	ngming	i
		2007		Ranj.Lal
		2007		darwaja
				C.No15
20	Tiger(F)	10-3-	fighting	Jhirna ranj.
20	riger(r)	2008	ingining	Jamunagwar
		2000		BlockC.No10
	Tiger(F)	4-11-	Natural	Kalagar
21	Tiger(1)	2008	Tuturur	h
				ranj,Mo
				hanpani
				chour
22	Tiger(M)	9-3-	Natural	Dhela
	8()	2009	- 10000	ranj.Pa
				thuraw
				a(W)
				Block
				C.No4
23	Tiger(M)	17-3-	fighting	Dhela
	(2.2)	2009	<i></i>	ranj.Sawalde
				Bhavar Plot-5
24	Tiger(M)	27-5-	Decompos	Maidavan
	6()	2009	ed	ranj.(E)Manda
				1.C.No10
	Tiger(M)	1-8-	fighting	Mandal
25	6()	2009	<i>5</i> ··· <i>8</i>	ranj.(E)Dumu
				nda.C.No-1
	Tiger(M)	13-	fighting	Dhikala
26	ر-·- <i>ا</i>	12-	38	ranj.Dhikala
		2009		BlockC.No-4
	Tiger(F)	16-	Old	Sarpduli ranj.
27	0(-)	12-	age,natural	Tairiya C.No-
		2009	<i>y</i> ,	1 Near
				Ramganga
L	ı	1	l .	

				River.
	Tiger(M)	5-1-	natural	Dhikala
28		2010		ranjKandaBlo
2	Tiger(M)	11-1-	natural	ck.C.No-23 Dhikala
2	riger(M)	2010	naturai	ranjKandaBlo
		2010		ck.C.No-1A
	Tiger	2-7-	Found	Kalagarh ranj
30	Cub (M)	2010	Injured,dea th under	Found injured
			treatment	
31	Tiger(F)	25-1-	fighting	Kalagarh ranj.
		2011		Dhara Block
				C.No-1
32	Tiger(M)	19-2-	fighting	Maiggeen Sot Kalagarh
32	Tiger(IVI)	2011	ngitting	ranj.Dhara
				Block.Khatpa
22	TP' (TP)	1 4	1	ni Di la la
33	Tiger(F)	1-4- 2011	natural	Dhikala ranjKandaBlo
		2011		ck.C.No-
				12&13
34	Unknow	3-5-	fighting	Sarpduli
	n	2011		ranj.Dhikala Block C.No-
				24
				Kothidhunga
25	T'(F)	7.6	D	Sot
35	Tiger(F)	7-6- 2011	Brain damage/Fr	Kalagarh ranj. Dhara Block
		2011	acture of	C.No-7
			Cervical	
36	Tigor	28-7-	vertebrae Accident	Dhela ranj
30	Tiger Cub (F)	2011	Accident	Dhela ranj Sawalde
	\-\(\frac{1}{2}\)			Bhavar
	m : 2.5	4.50	o. 1 ·	BlockN-1
37	Tiger(M)	15-9- 2011	fighting	Bijrani ranj. HimmatpurDo
		2011		tiyal ,Nainital
				Zoo
38	Tiger	14-	natural	Dhela ranj
	Cub(F)	12-		Dhela Bhabar
	15-20 days	2011		Block C.No.5&6
	aays			joint
39	Tiger	13-1-	Serious	Jhirna
	Cub(M)	2012	dehydratio	ranj.Jhirna
40	Tiger(M)	20-2-	n fighting	Block C.No-8 Sonanadi ranj
+0	11501(111)	2012	ngnung	Dholkhand
				C.No-11

41	Tiger	8-4-	natural	Bijrani ranj.
	unknown	2012		Phultal
				BlockC.No-10
42	Tiger	25-5-	-	Bijrani ranj.
	unknown	2012		
43	Tiger(F)	27-9-	-	Dhela ranj
		2011		Kaseruwa
				compart No-
				11

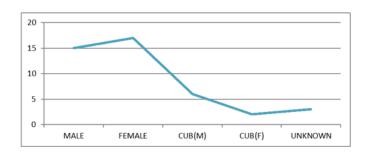
Source: Official Corbett Research Range (Shodh Range). Corbett Tiger Reserve, Ramnagar.

III. RESULT AND DISCUSSION;

Total 43 cases were analyzed from 9-11-2000 to 27-5-2013. Mostly the result shows that fighting cases, it depicts the stress in tiger habitat & stress on carrying capacity. So result shows that fighting case indicates the insufficient area to dwell wild in wild. Tiger is territorial animal; it marks the area by different ways. So the social organization is always varies area to area with vital need and ecological fulfillment for wild tiger in natural habitat. During breeding season the fighting is very common but being a territorial animal the struggle is more in rest of other wild animal.

IV. DISCUSSION-

So over all 43 tiger were lost (Table 1) from 9-11-2000 to 27-5-2013 in Corbett Tiger Reserve. Among total 43, the 15 were male, 17 were female and cub male were 6 & 2 were cub female and other 3 were unknown. Finally result depicts that such a big loss in 12-13 year (42 tiger). Hopefully the result showing the disturb ecological need that's why the mortality rate in high in the area. On the other hand tiger mortality rate is very high in wild. For wild survival of tiger is very tough and challenging. Following graph show the tiger loss sex wise in 12/13 years.



Fig; Tiger mortality sex wise in 12 years.

V. CONCLUSION-

So conclusion of this study is serious concerned with the vital ecological need for tiger in the concerned area. Prey biomass research is highly needed & scientific monitoring of big cat by all means is recommended very honestly than only we can

save the big cat. Female loss is a big loss because the female is brooder while male is breeder.

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