

HUMAN WILDLIFE CONFLICT

NITISH MANI TRIPATHI
DFO, DEHRADUN
7830811111



UTTARAKHAND AT A GLANCE

- **53,483 km² (1.6% of country)**
- **71.05 % recorded forest area (4.97% of country) *FSI***

UTTARAKHAND: WILDLIFE RICHNESS

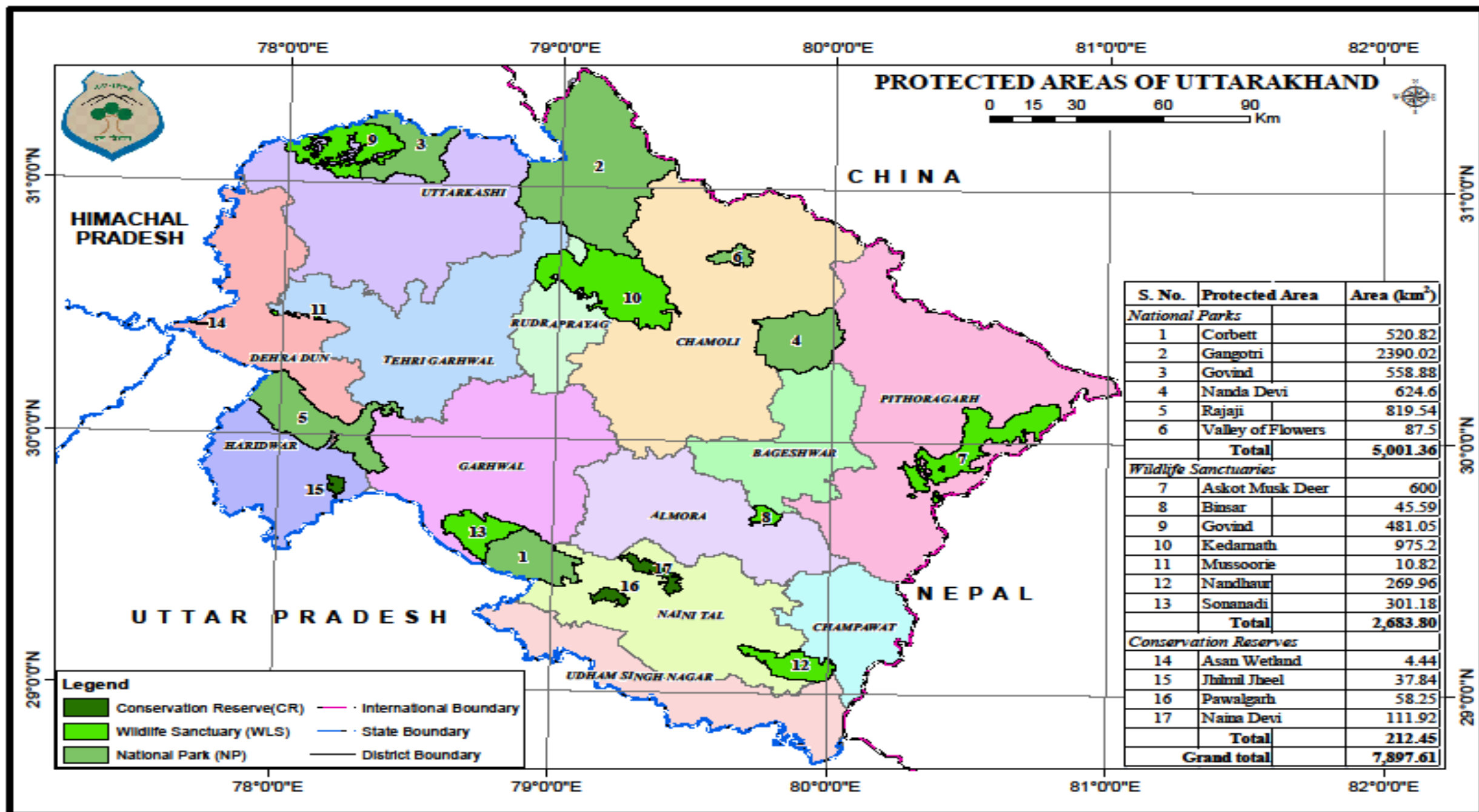
Taxa	No of species			% w.r.t. India
	World	India	Uttarakhand	
Mammals	4629	390	102	26.2
Birds	10000+	1350	710	52.6
Reptiles	5680	521	69	13.2
Amphibians	5145	231	19	8.2
Fishes	21723	5749	124	2.2





UTTARAKHAND WILDLIFE RICHNESS

- **442 tigers (2018 WII-NTCA estimation) out of 3167 (2022 census) for the country (>15%)**
- **1839 Asiatic elephants (2017)**
- **Range of fauna from tropical to alpine**
 - **Tiger, Leopard, Snow Leopard**
 - **Sloth Bear, Black bear, Brown bear**
 - **Chital, Hog Deer, Swamp Deer, Sambar, Barking Deer, Musk Deer**
 - **Goral, Serow, Himalayan Thar, Bharal**
 - **Red Junglefowl, Kaleej, Kokass, Cheer, Satyr Tragopan, Himalayan Monal, Himalayan Snowcock**
 - **Mugger, Ghariyal, King Cobra**





PROTECTED AREAS OF UTTARAKHAND

- **6 National Parks (Corbett, Rajaji, Govind, Gangotri, Nanda devi, Valley of flowers)**
 - **9.35% area of state**
- **7 Wildlife Sanctuaries (Askot, Binsar, Govind, Kedarnath, Nandhour, Benog, Sonanadi)**
 - **5.02% area of state**
- **4 Conservation reserves (Asan, Pawalgarh, Jhilmil jheel, Naina devi)**
 - **0.40% area of state**
- **Total 14.77 % area**
 - **7897.54 sq km**
- **1 Biosphere reserve (Nanda devi)**
- **2 Tiger reserve (Corbett & Rajaji)**
- **2 World heritage sites (Nanda devi & Valley of flowers)**



GOVERNMENT ORDERS

- G.O. No. 2228/X-2-2012-19(37)/2003 dated 10.12.2012
MANAV VANYA JEEV SANGHARSH RAHAT VITARAN NIDHI
NIYAMAWLI.
- Cutoff date 03.11.2012
- G.O. No. 1468/xviii-(2)/19-15(06)/2019 dated 11.11.2019
declared human wildlife conflict as state disaster.
Payment from State Disaster Response Fund as per the
guidelines of the State Disaster Response Fund.
- Cutoff date 10.02.2021
- 90% Centrally sponsored.
- Extra amount if any to be paid from HWC Relief Fund.



LIST OF ANIMALS

- **FOR HUMAN DEATH OR INJURY-** Tiger, **Leopard**, Snow leopard, **Wild Elephant**, Asiatic Black Bear, Himalayan Brown Bear, Sloth Bear, Wild Boar, Crocodile, **Snake**, Gharial, Hyena.
- **FOR ANIMAL DEATH-** Tiger, Leopard, Snow leopard, Asiatic Black Bear, Himalayan Brown Bear, Sloth Bear, Wild Boar, Crocodile, Snake, Gharial, Hyena.
- **FOR CROP DAMAGE-** **Wild elephant**, Wild boar, **Monkey**, Spotted Deer, Barking Deer, Sambhar Deer, Nilgai.
- **FOR DAMAGE TO HOUSE-** **Wild elephant**.



DEPENDENTS

- **Husband, Wife, Kids, Parents, Anybody declared as dependent in any document.**
- **Revenue Department will inform who all are dependents..**



EXGRATIA

- Two types of Fund (NIDHI)
 - HUMAN WILDLIFE CONFLICT RELIEF DISTRIBUTION FUND (Manav Vanya Jeev Sangharsh Rahat Vitaran Nidhi) Advance disbursal is allowed.
 - STATE DISASTER RELIEF FUND (Rajya Aapda Mochan Nidhi) Advance disbursal is not allowed.
- Two separate accounts
- All payments through DBT
- Audit

DAMAGE TO HUMAN BODY (MANAV KSHATI)

TYPE OF DAMAGE	AMOUNT TO BE PAID	SDRF	HWC RELIEF FUND
DEATH	4,00,000	4,00,000	-
FULLY HANDICAPPED (SPECIALLY ABLED) (more than 60%)	2,00,000	2,00,000	-
PARTIALLY HANDICAPPED	1,00,000	59,100	40,900
SERIOUS INJURY (Stay in hospital over a week)	50,000	12,700	37,300
SIMPLE INJURY	15,000	4,300	10,700



PROCEDURE

- Written information to nearest Range office within 48hrs.
- Confirmation by Gram Pradhan or some political representative.
- 30% advance in case of death or injury to human and 20% advance in case of damage to animals within 48hrs of information.
- Medical certificate by Doctor
- If case is later found to be fake then the advance paid will be recovered as arrear of land revenue.
- Investigation by Sub Divisional Officer
- Final investigation report to be submitted within a month.
- DFO is final authority to order for payment of exgratia.
- Tehsildar/Patwari + FG for crop inspection, Nayab Tehsildar+ RO for house damage.
- 3% of fund can be used for administrative expenditure.

DAMAGE TO ANIMALS (PASHU KSHATI)

TYPE OF ANIMAL DAMAGE	AMOUNT TO BE PAID	SDRF	HWC RELIEF FUND
Milching Cow, Buffalo, Yak, Camel, mithun etc	30,000	30,000	-
Camel, Horse etc involved in carrying farm produce.	40,000	25,000	15,000
Ox (Bail)	25,000	25,000	-
Donkey, Calf, Mule, Ass	16,000	16,000	-
Goat, Wild Boar, Sheep	3,000	3,000	-

DAMAGE TO HOUSE

TYPE OF DAMAGE	AMOUNT TO BE PAID	SDRF	HWC RELIEF FUND
Entire House damaged	90,000	90,000	-
Damage to boundary wall/ partial damage to pucca house	15,000	5,200	9,800
Jhopdi	5,000	4,100	900
Kuchha house (except jhopdi)	15,000	3,200	11,800
Animal shelter attached to house	2100	2100	-

DAMAGE TO CROP

TYPE OF CROP	AMOUNT TO BE PAID (Per Acre)	SDRF	HWC RELIEF FUND
Sugarcane	25,000	-	25,000
Rice, Wheat, Oilseeds	15,000	-	15,000
All other crops	8,000	-	8,000



CAUSES

- **Shortage of prey**
- **Reduction in habitat**
- **Expansion of human settlements**
- **Ageing of animal**
- **Loss of Canine**
- **New roads adjoining forest areas**
- **Lack of awareness**
- **Scarcity of water**



LIVING WITH LEOPARDS

- Maharashtra Forest department, Sanjay Gandhi national Park.
- Guldar ki dagdiya (staying place of leopards)
- Children's Ambassador Program- busting myths associated with leopards and instructions on safety through plays.
- Central theme- make lifestyle changes to co-exist
- School Outreach Program.
- Pauri garhwal, Almora, Pithoragarh, Tehri, Raudraprayag
- Primary response team formed at village level which informed about leopard appearances and its attack if any.
- RRT/QRT with vet & equipments.
- Awareness drive
- Cleaning up bushes
- Lights around houses
- Moving in groups



MEASURES

- **Solar fencing, Tentacle fencing**
- **Elephant proof wall/ trench**
- **Wild boar proof stone wall in hills**
- **Biofencing**
- **Change in cropping pattern**
- **RRT/QRT**
- **Awareness drive**
- **Cleaning up bushes**
- **Lights around houses**
- **Moving in groups**
- **Bursting Crackers**
- **Using Drones, camera trap, e-eye, helicopters**



MEASURES

- Radiocollaring
- Sterilisation of monkeys (Chiriyapur, Ranibagh, Almora)
- Patrolling
- Toilets
- SWM
- Foxlights
- ANIDERS (Animal intrusion detection and repellent system)
- Tranquilisation
- Trapping
- Immediate disbursement of exgratia.

No Perfect Solution

Solutions to HWC have to evolve continuously.



THANKS