

MSTripES Patrol Report

Patrol between Nov to Dec 2018

Pilibhit Tiger Reserve





भारतीय वन्यजीव संस्थान
Wildlife Institute of India



MSTripES Patrolling Activity in PTR





Introduction and acknowledgement

This is the 3rd report since May 2018 based on MSTrIPES patrolling in Pilibhit Tiger Reserve. This is a bi month report based on patrolling done in the months of November and December 2018. The report reflects the monitoring and protection efforts made by staff of PTR in all parts of reserve however it also shows areas of concern with respect to very less or no presence of staff in certain parts of reserve. The report not only shows the temporal and spatial movement pattern of staff apart from patrol intensity but it also shows the quality of patrol. Patrol with recording of observations in app makes it more meaningful and informative. Efforts will be made to generate monthly report now onwards for better analysis and improvement.

The report would not have been possible without relentless efforts of field staff who in-spite of chilly weather managed to generate data to be analyzed while protecting the nature with meager resources.

It is the WWF team who prepared the report and arranged app data in presentable form so that it can be analyzed. For this credit must be given to Mr Naresh Kumar, Project Officer WWF at Pilibhit and Mr Rahul under the guidance of Mr Mudit Gupta, State Coordinator WWF who extended hand holding to staff for the app.

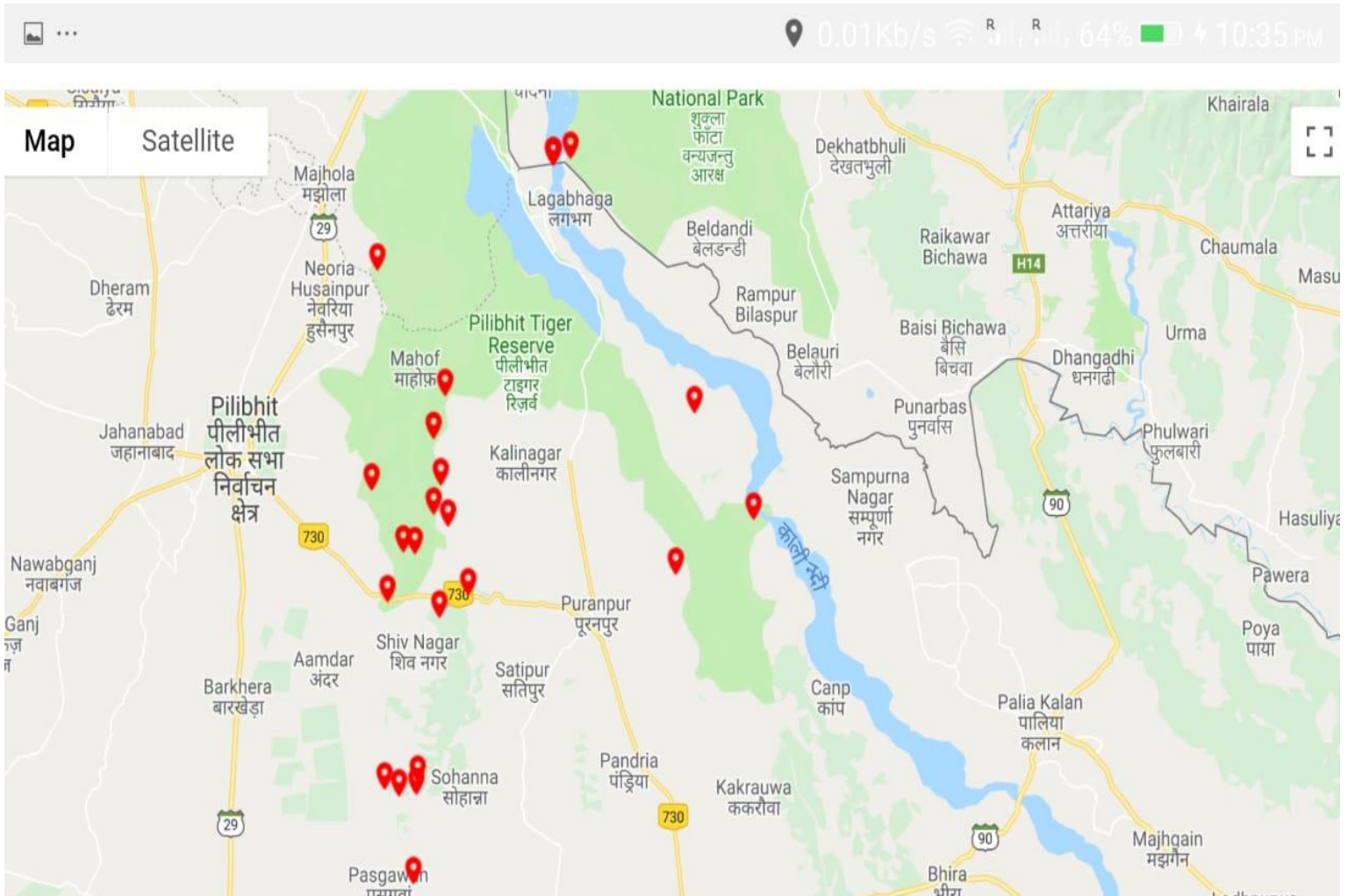
We are very thankful to Shri Nishant Verma, DIG, NTCA who boosted the morale of staff by being with them during a demo patrolling and giving valuable inputs to make most use of this app.

We extend our sincere thanks to CCF Rohilkhand Zone, Shri Arvind Gupta for providing constant motivation and direction in the field for better performance.

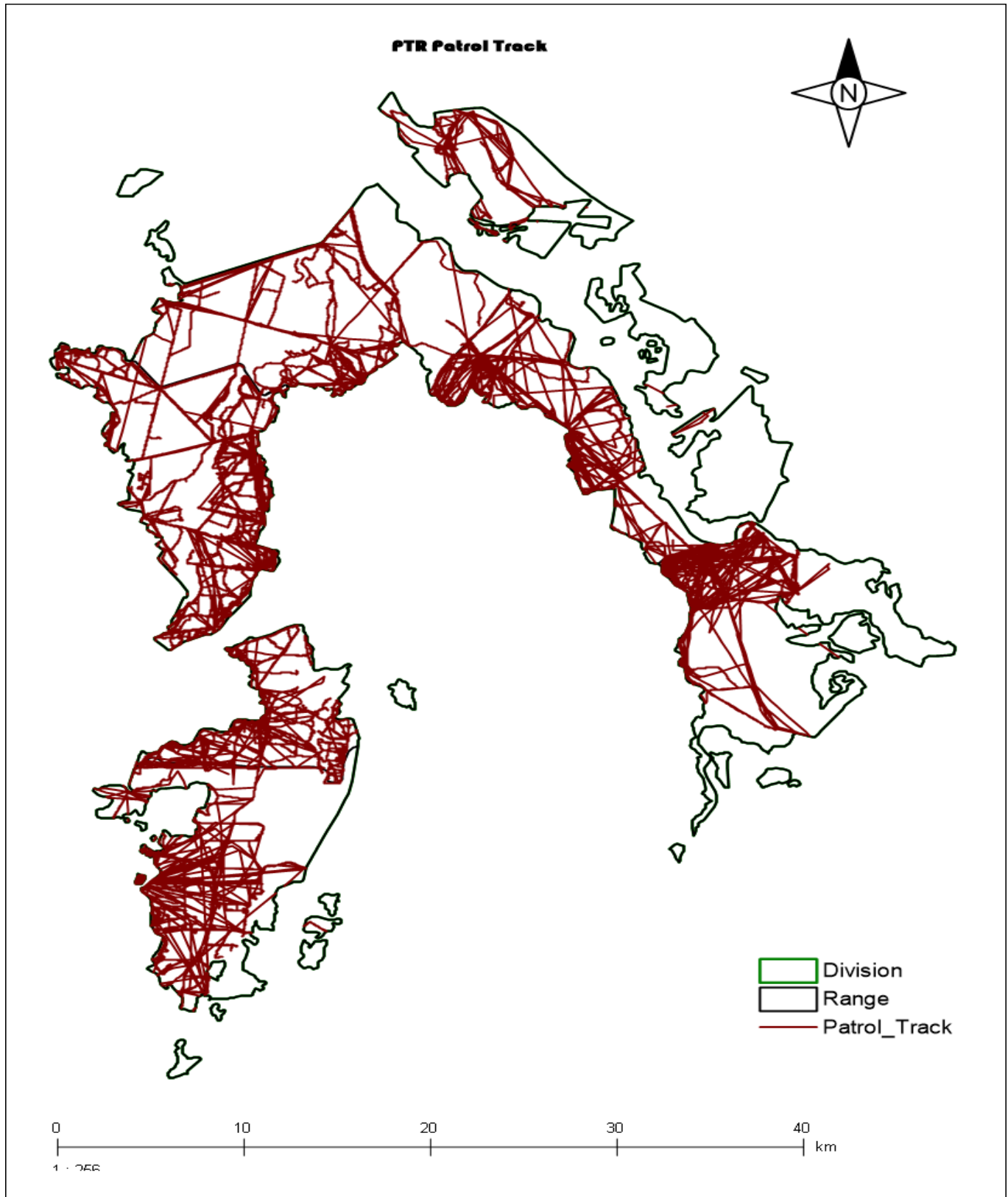
We are grateful to Shri Pawan Kumar Sir, PCCF & HOFF and Shri Sunil Pandey sir PCCF WL for all the support and motivation to do our best and use of technology for better forest and wildlife protection.

Pilibhit Tiger Reserve

MSTrIPES Patrolling Teams in Pilibhit Tiger Reserve



Spatial Analysis Track Map



Non Spatial Analysis Patrol Summary

(Range Wise)

Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit_TR	Mala	Ashok Kumar	General_Duties & Combing_Surveill	24	2	4	16	46	544.390
Pilibhit_TR	Mala	Jagdish & Sitaram	General_Duties	40	1	1	16	58	749.759
Pilibhit_TR	Mala	Mahesh Chandra	General_Duties	19	3	2	1	25	259.890
Pilibhit_TR	Mala	Natthulal verma	General_Duties	65	0	7	1	73	930.167
Pilibhit_TR	Mala	Paragrashi	General_Duties	4	0	0	14	18	205.149
Pilibhit_TR	Mala	Prem Pal Singh	General_Duties	5	1	5	0	11	87.035
Pilibhit_TR	Mala	Siya Ram	General_Duties	14	0	0	2	16	165.261
Pilibhit_TR	Mala	Surender Gautam	General_Duties	29	1	1	0	31	442.169
Pilibhit_TR	Mala	Vinay prakash	General_Duties & Combing_Surveill	18	13	10	0	41	633.427
Pilibhit_TR	Mala	Visual babu	General_Duties	1	1	3	0	5	83.938
Pilibhit_TR	Mala	Wazir hasan	General_Duties	6	2	0	0	8	100.810
Pilibhit_TR	Mala	Ramesh Chander Bhatt	General_Duties	36	4	1	0	41	779.213
Total				261	28	34	50	373	4981.208



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Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit_TR	Mahof	Chander Sen Maurya	General_Duties	10	5	0	0	15	276.422
Pilibhit_TR	Mahof	Pushpendra Kumar	General_Duties & Combing_Surveill	36	8	1	0	45	1431.080
Pilibhit_TR	Mahof	Shankar Singh	General_Duties	58	0	2	0	60	781.563
Pilibhit_TR	Mahof	Shirpal & Shanker Singh	General_Duties	1	0	2	13	16	116.944
Total				105	13	5	13	136	2606.009

Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit_TR	Deoria	Lala Ram & Prakash Veer	General_Duties	32	8	0	0	40	618.399
Pilibhit_TR	Deoria	Ratan Lal	General_Duties & Combing_Surveill	31	1	4	1	37	473.632
Pilibhit_TR	Deoria	Prakash Veer	General_Duties	12	0	0	0	12	180.786
Pilibhit_TR	Deoria	Rahul Kumar Nain & Mohan	General_Duties	12	0	1	2	15	101.834
Pilibhit_TR	Deoria	Sovran singh	General_Duties	24	0	5	4	33	461.363
Pilibhit_TR	Deoria	Virender,	General_Duties	1	1	0	0	2	51.511
Total				112	10	10	7	139	1887.525



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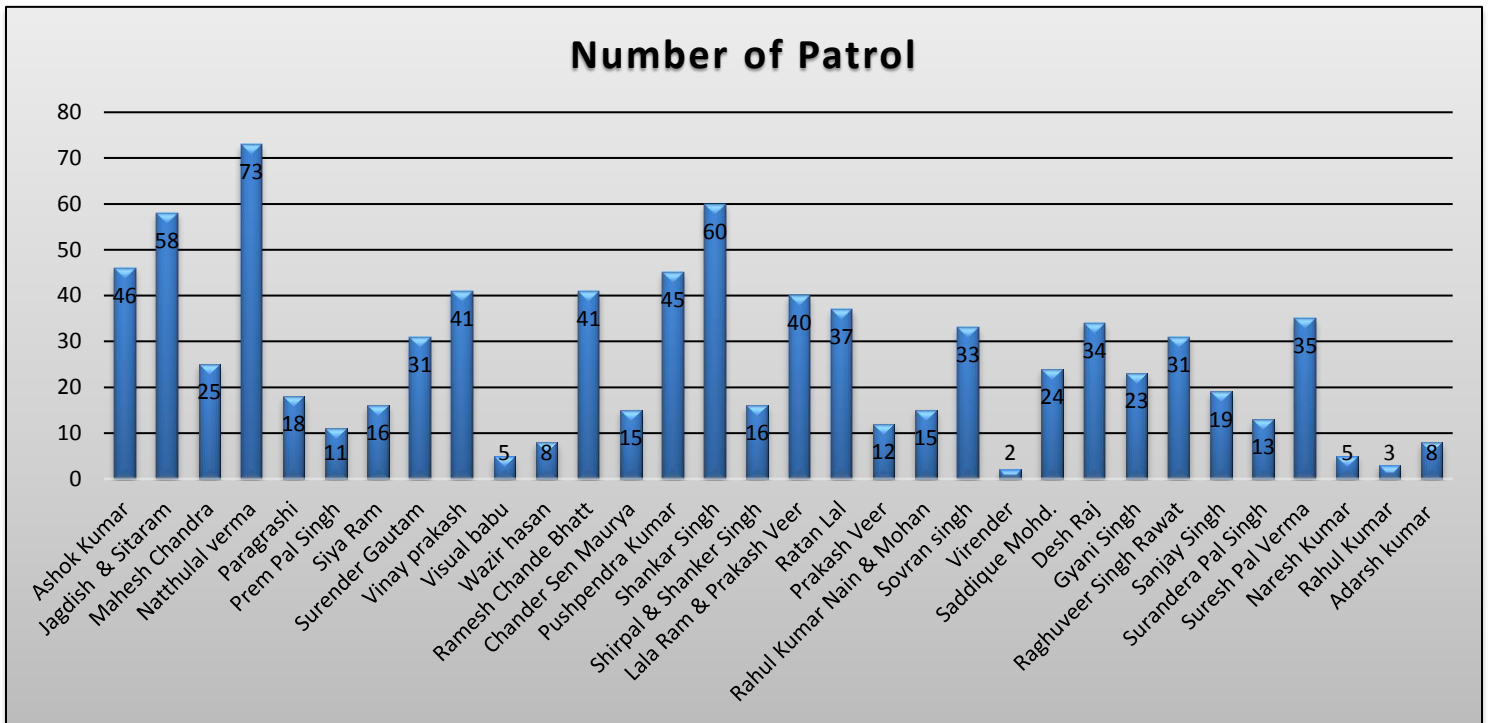
Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit_TR	Haripur	Saddique Mohd.	General_Duties	22	1	1	0	24	465.245
Pilibhit_TR	Haripur	Desh Raj	General_Duties	34	0	0	0	34	891.316
Pilibhit_TR	Haripur	Gyani Singh	General_Duties	15	8	0	0	23	472.572
Total				71	9	1	0	81	1829.133

Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit_TR	Barahi	Raghuveer Singh Rawat	General_Duties	31	0	0	0	31	550.161
Pilibhit_TR	Barahi	Sanjay Singh	General_Duties	13	0	0	6	19	375.638
Pilibhit_TR	Barahi	Surandera Pal Singh	General_Duties & Combing_Surveill	11	0	1	1	13	192.627
Pilibhit_TR	Barahi	Suresh Pal Verma	General_Duties	16	16	3	0	35	562.695
Total				71	16	4	7	98	1681.121

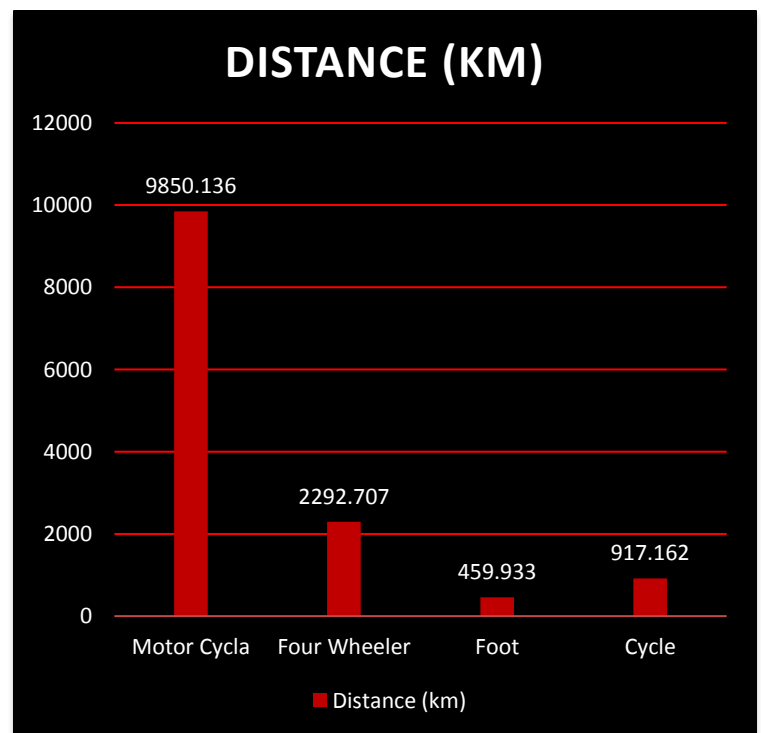
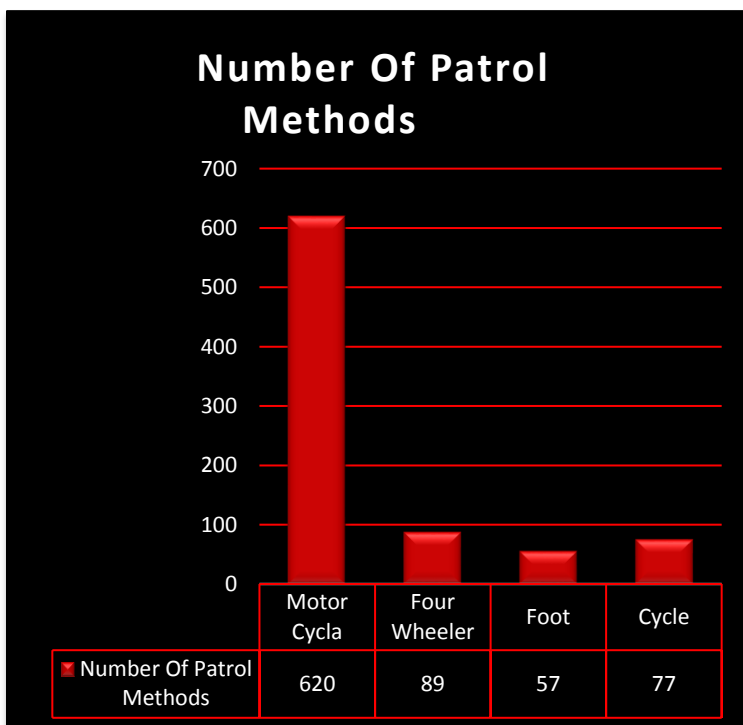
Division	Range Name	User Name	Patrol Type	Motor Cycle	Four Wheeler	Foot	Cycle	Number of Patrol	Distance (km)
Pilibhit TR	All	Naresh Kumar	General_Duties	0	3	2	0	5	101.68
Pilibhit TR	All	Rahul Kumar	General_Duties	0	2	1	0	3	51.392
Pilibhit TR	All	Adarsh Kumar (DFO)	General_Duties	0	8	0	0	8	381.874
Total				0	13	3	0	16	534.946

Grand Total				620	89	57	77	843	13519.942
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Non Spatial Analysis User Name

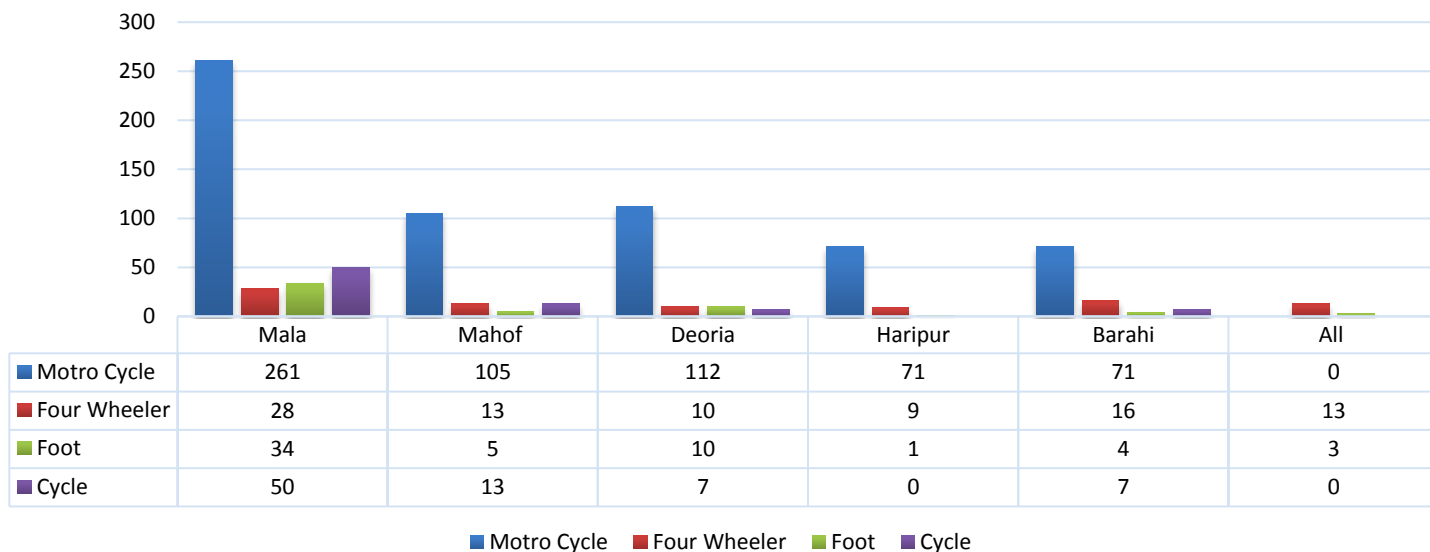


Non Spatial Analysis

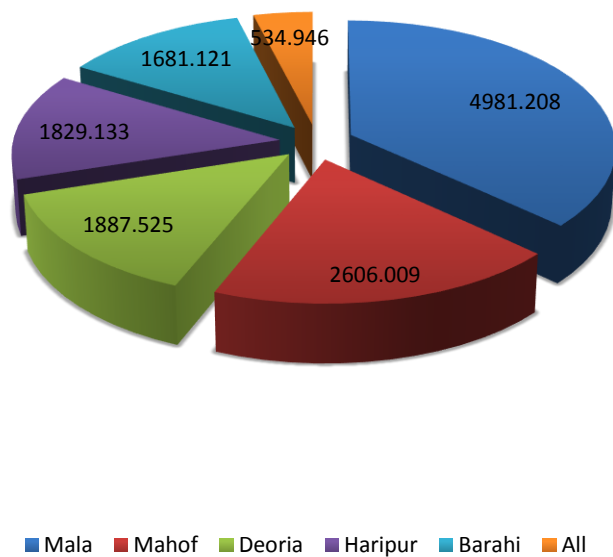


Range Wise Patrol Methods, Distance & Number of Patrol Analysis

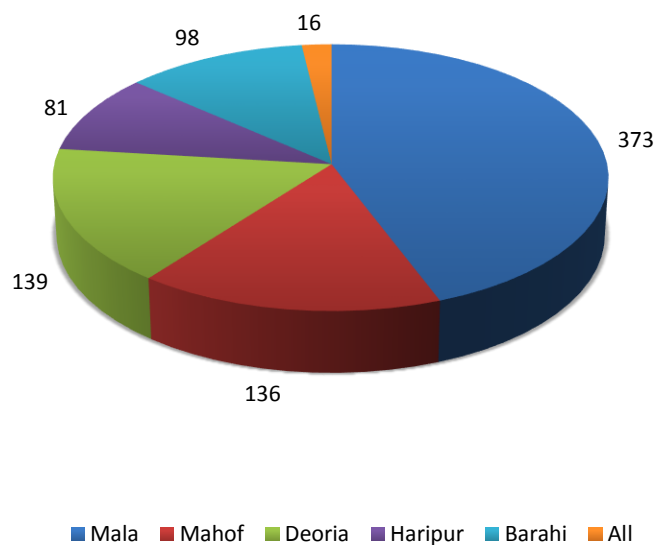
Range Wise Patrol Methods



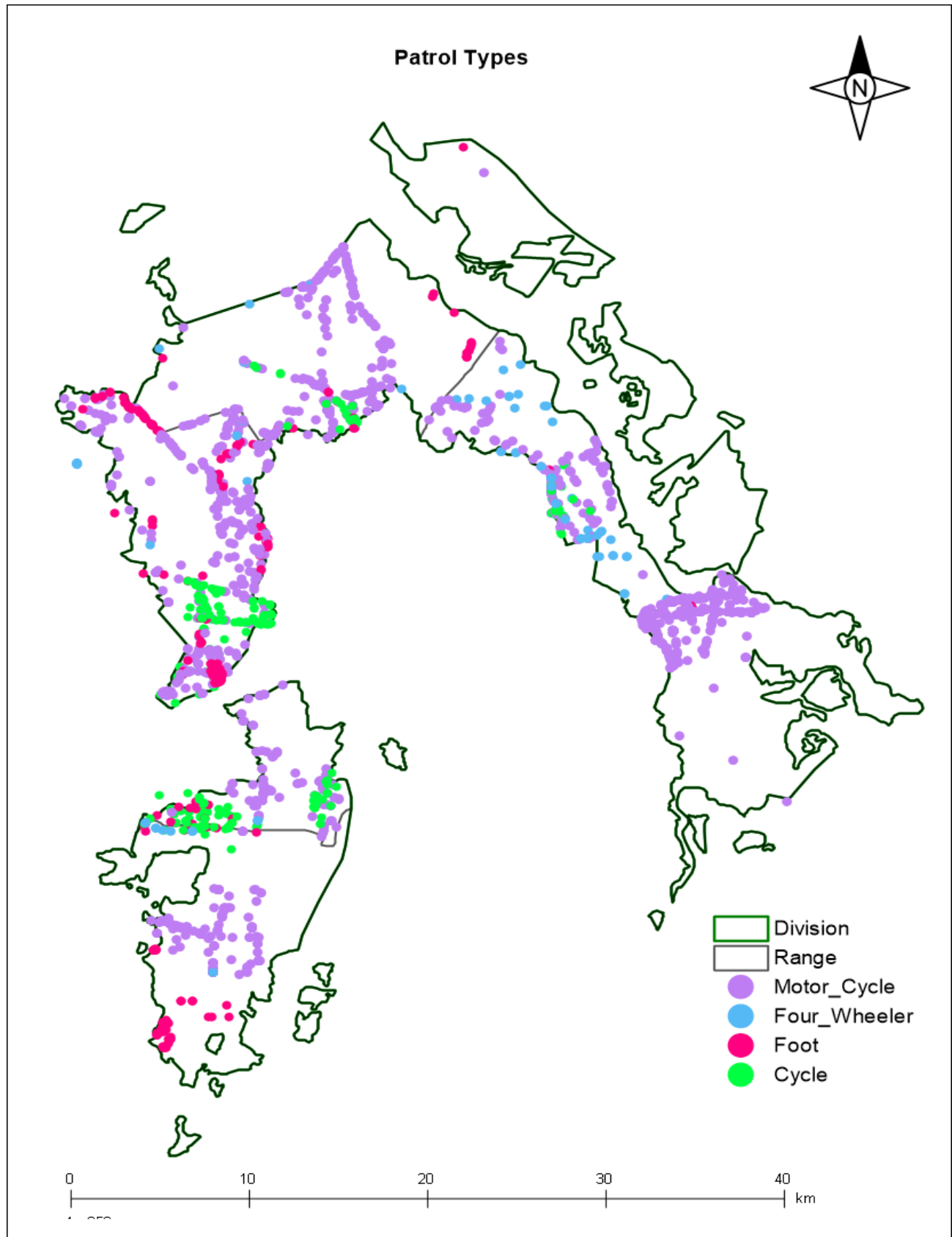
Range Wise Distance (KM)



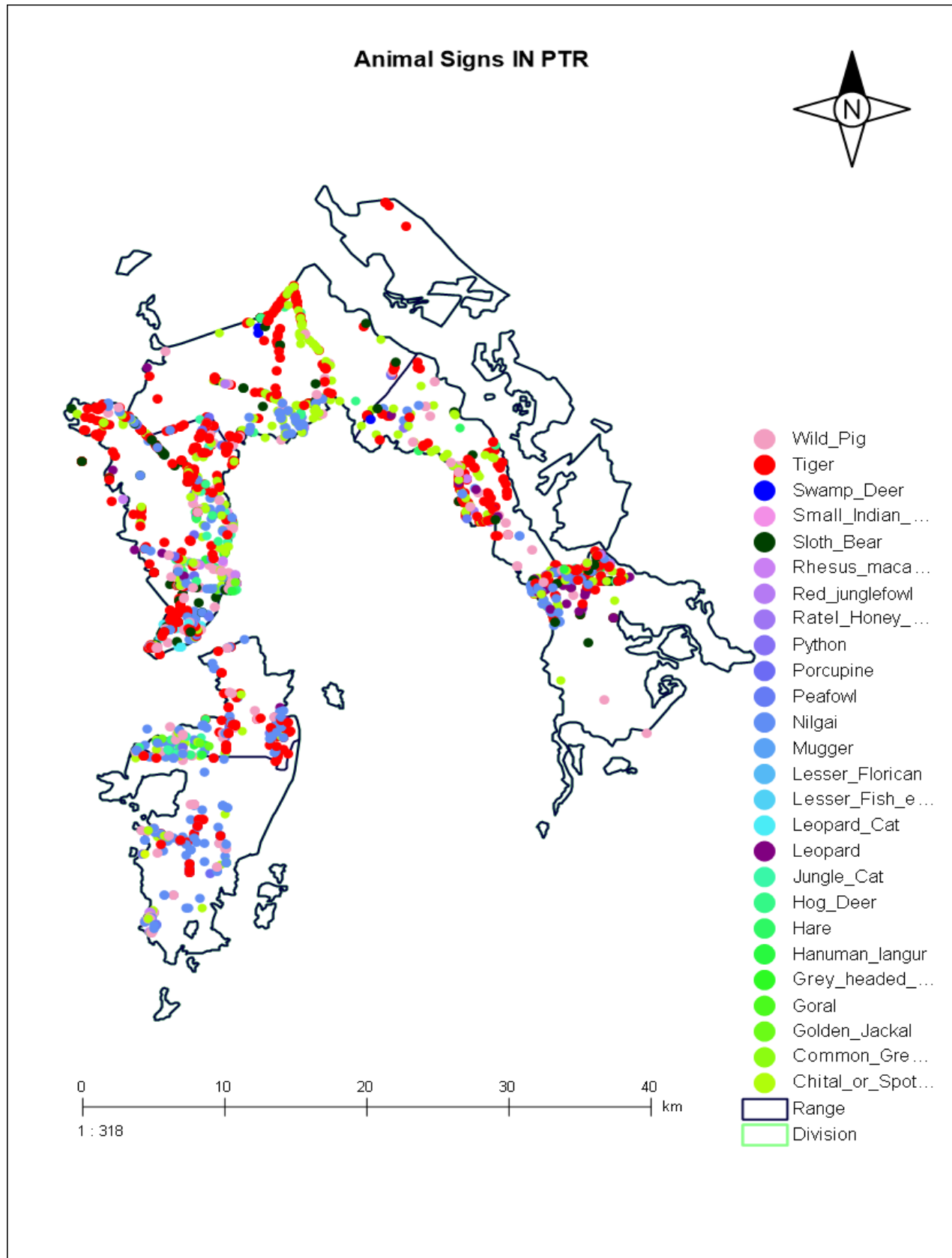
Range Wise Number of Patrol



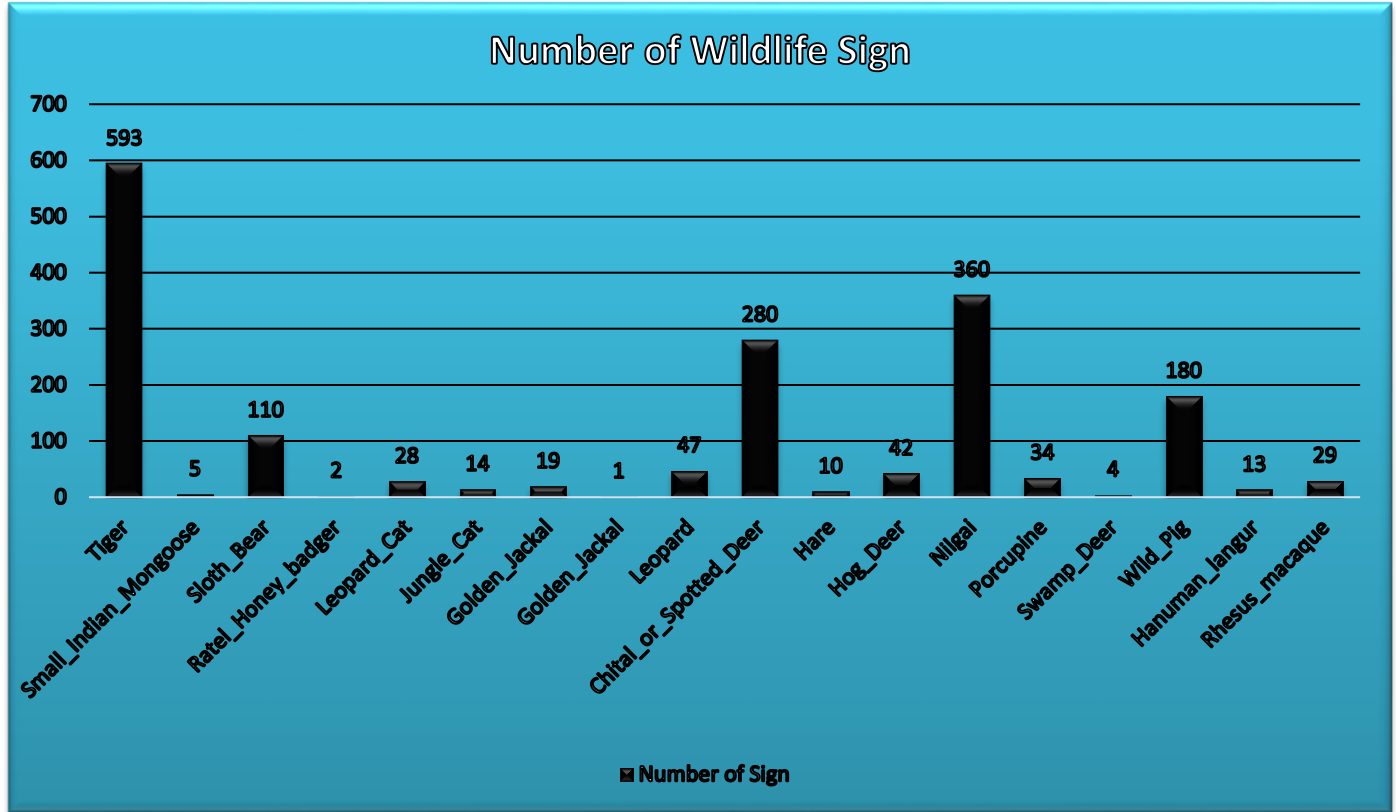
Spatial Analysis Patrol Methods



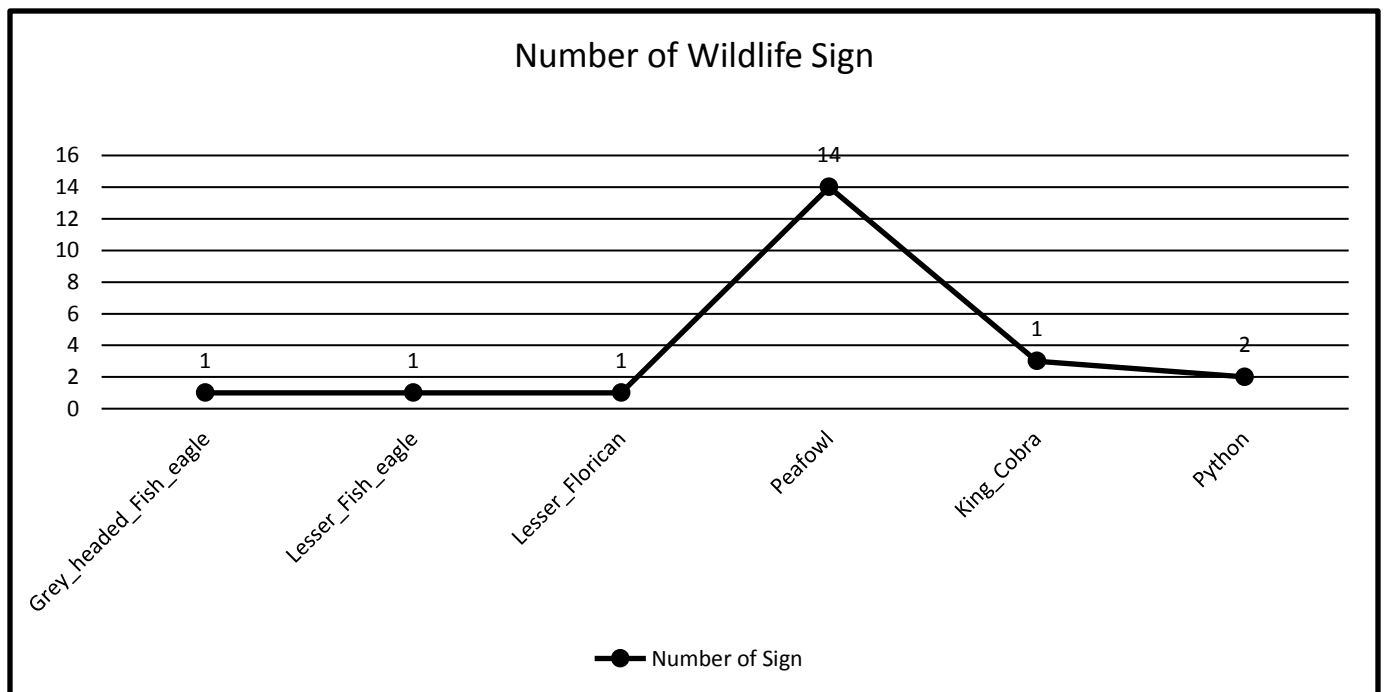
Spatial Analysis Wildlife Signs



Non Spatial Analysis Species Type



(Carnivore, Herbivore & Primate Arboreal)
(Bird & Reptile)

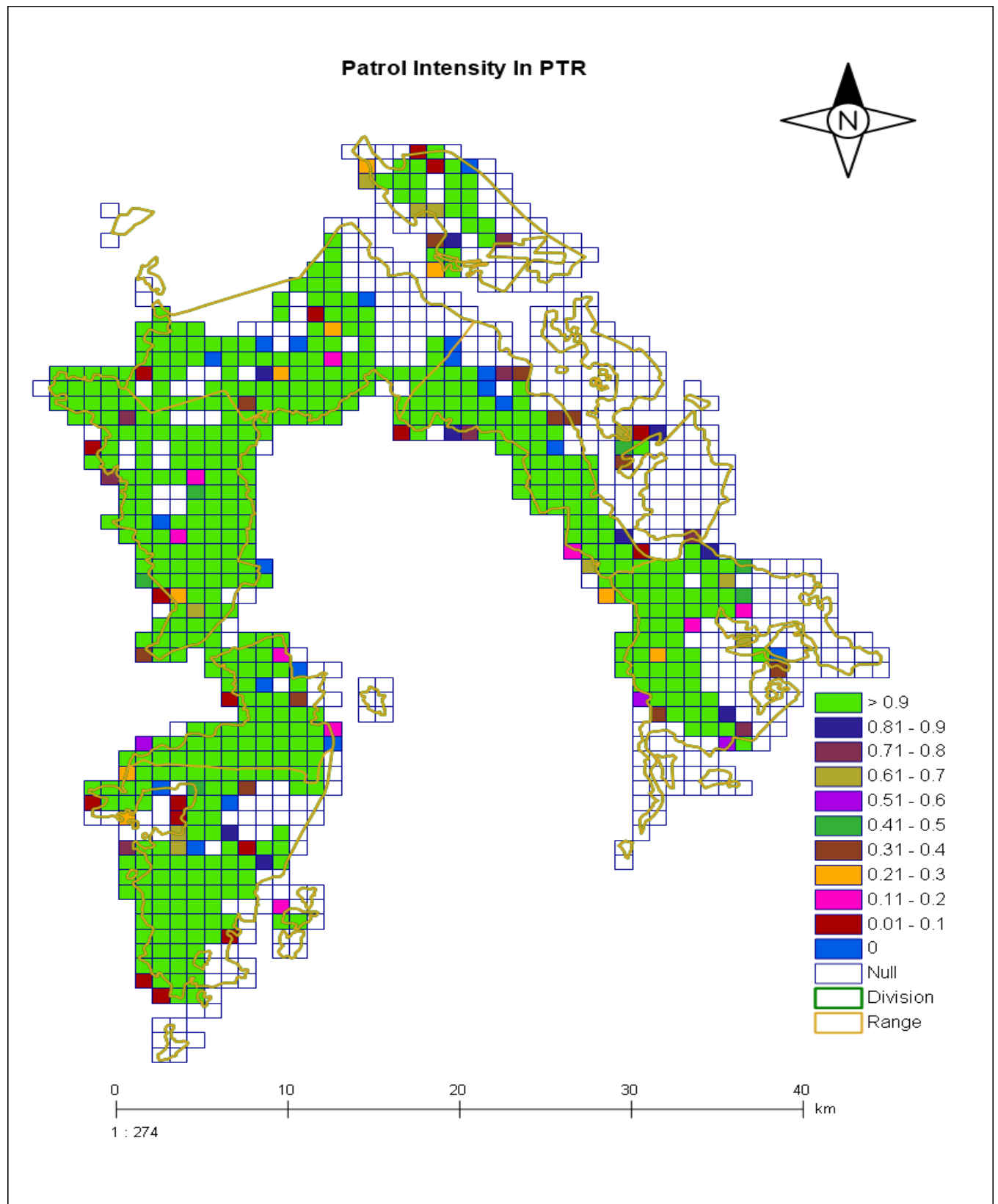


Spatial Analysis Animal Signs Summary

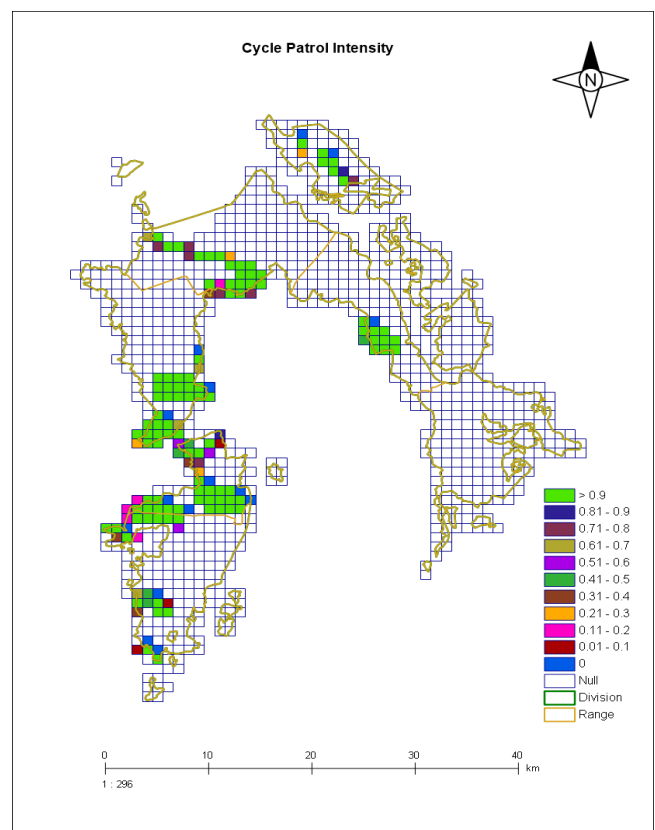
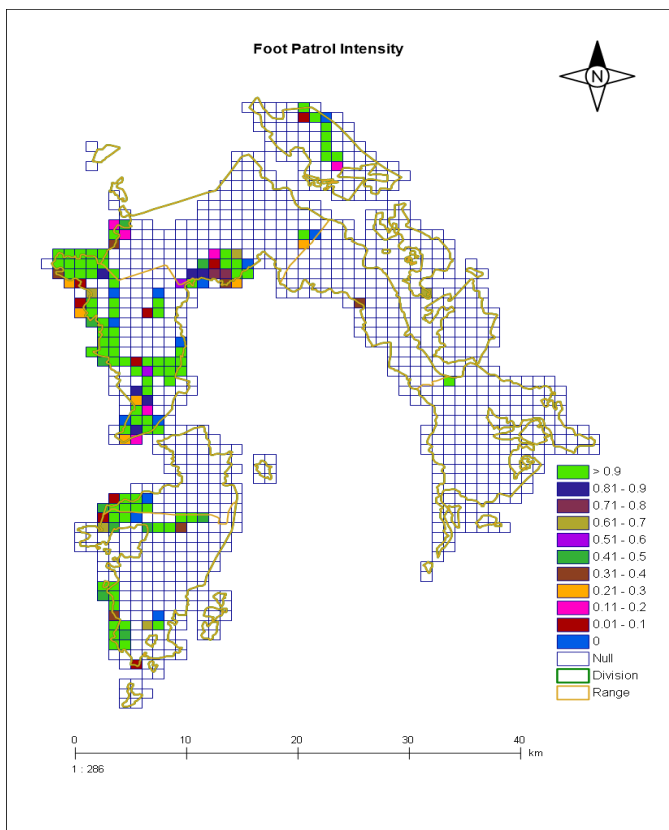
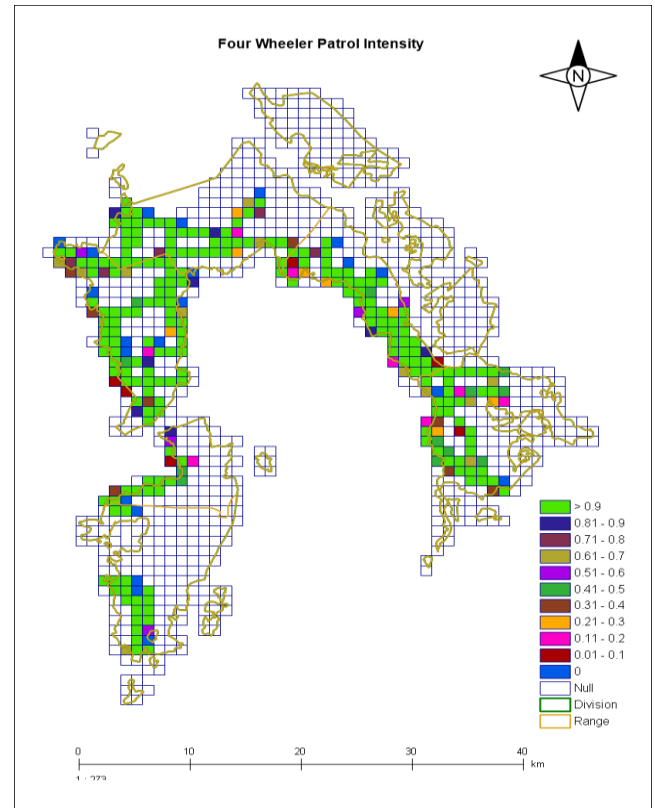
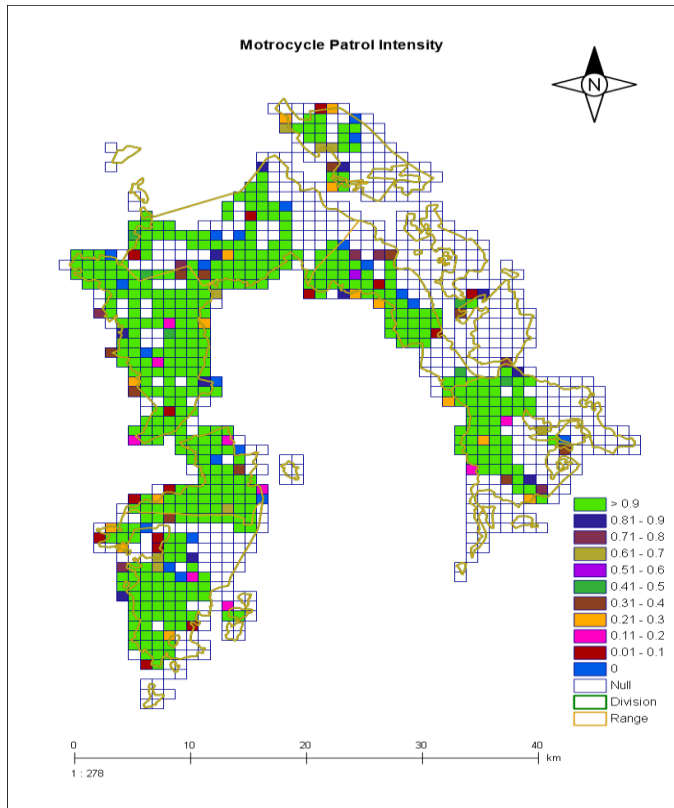
SP Type	Species	Sign	Number of Sign
Carnivore	Tiger	Pugmark_Track	384
Carnivore	Tiger	Direct_Sighting	10
Carnivore	Tiger	Scrape	7
Carnivore	Tiger	Scat_Pellets_Dung	16
Carnivore	Tiger	Scat_and_Scape	57
Carnivore	Tiger	Rolling	12
Carnivore	Tiger	Spray	3
Carnivore	Tiger	Rake	103
Carnivore	Tiger	Kills	1
Carnivore	Leopard	Direct_Sighting	2
Carnivore	Leopard	Pugmark_Track	27
Carnivore	Leopard	Rake	15
Carnivore	Leopard	Rolling	2
Carnivore	Leopard	Scat_Pellets_Dung	1
Carnivore	Sloth_Bear	Digging	43
Carnivore	Sloth_Bear	Direct_Sighting	4
Carnivore	Sloth_Bear	Pugmark_Track	48
Carnivore	Sloth_Bear	Rake	2
Carnivore	Sloth_Bear	Scat_and_Scape	1
Carnivore	Sloth_Bear	Scat_Pellets_Dung	9
Carnivore	Sloth_Bear	Scrape	3
Carnivore	Common_Grey_Mongoose	Direct_Sighting	1
Carnivore	Golden_Jackal	Direct_Sighting	18
Carnivore	Golden_Jackal	Pugmark_Track	1
Carnivore	Jungle_Cat	Direct_Sighting	8
Carnivore	Jungle_Cat	Pugmark_Track	6
Carnivore	Leopard_Cat	Pugmark_Track	25
Carnivore	Leopard_Cat	Rolling	1
Carnivore	Leopard_Cat	Scat_and_Scape	2
Carnivore	Ratel_Honey_badger	Direct_Sighting	2
Carnivore	Small_Indian_Mongoose	Direct_Sighting	5
Herbivore	Chital_or_Spotted_Deer	Direct_Sighting	223
Herbivore	Chital_or_Spotted_Deer	Pugmark_Track	21
Herbivore	Chital_or_Spotted_Deer	Rake	1
Herbivore	Chital_or_Spotted_Deer	Rolling	2
Herbivore	Chital_or_Spotted_Deer	Scat_and_Scape	8
Herbivore	Chital_or_Spotted_Deer	Scat_Pellets_Dung	18
Herbivore	Chital_or_Spotted_Deer	Scrape	1
Herbivore	Chital_or_Spotted_Deer	Vocalization	5
Herbivore	Chital_or_Spotted_Deer	Digging	1
Herbivore	Hare	Direct_Sighting	6
Herbivore	Hare	Pugmark_Track	2
Herbivore	Hare	Scat_and_Scape	1

Herbivore	Hare	Scat_Pellets_Dung	1
Herbivore	Hog_Deer	Direct_Sighting	40
Herbivore	Hog_Deer	Pugmark_Track	1
Herbivore	Hog_Deer	Scat_and_Scape	1
Herbivore	Nilgai	Direct_Sighting	92
Herbivore	Nilgai	Pugmark_Track	11
Herbivore	Nilgai	Scat_and_Scape	35
Herbivore	Nilgai	Scat_Pellets_Dung	218
Herbivore	Nilgai	Vocalization	3
Herbivore	Nilgai	Digging	1
Herbivore	Porcupine	Digging	27
Herbivore	Porcupine	Direct_Sighting	2
Herbivore	Porcupine	Pugmark_Track	1
Herbivore	Porcupine	Rake	1
Herbivore	Porcupine	Scat_Pellets_Dung	1
Herbivore	Porcupine	Scrape	2
Herbivore	Swamp_Deer	Direct_Sighting	3
Herbivore	Swamp_Deer	Scat_Pellets_Dung	1
Herbivore	Wild_Pig	Digging	73
Herbivore	Wild_Pig	Direct_Sighting	64
Herbivore	Wild_Pig	Pugmark_Track	3
Herbivore	Wild_Pig	Rake	4
Herbivore	Wild_Pig	Rolling	2
Herbivore	Wild_Pig	Scat_and_Scape	3
Herbivore	Wild_Pig	Scat_Pellets_Dung	8
Herbivore	Wild_Pig	Scrape	23
Primate_Arboreal	Hanuman_langur	Direct_Sighting	13
Primate_Arboreal	Rhesus_macaque	Direct_Sighting	23
Primate_Arboreal	Rhesus_macaque	Pugmark_Track	1
Primate_Arboreal	Rhesus_macaque	Scat_Pellets_Dung	3
Primate_Arboreal	Rhesus_macaque	Vocalization	2
Reptile	King_Cobra	Direct_Sighting	1
Reptile	Python	Direct_Sighting	2
Bird	Grey_headed_Fish_eagle	Direct_Sighting	1
Bird	Lesser_Fish_eagle	Direct_Sighting	1
Bird	Lesser_Florican	Vocalization	1
Bird	Peafowl	Digging	1
Bird	Peafowl	Direct_Sighting	6
Bird	Peafowl	Feather	2
Bird	Peafowl	Pugmark_Track	2
Bird	Peafowl	Rake	1
Bird	Peafowl	Scrape	1
Bird	Peafowl	Vocalization	1
Total Signs			1769

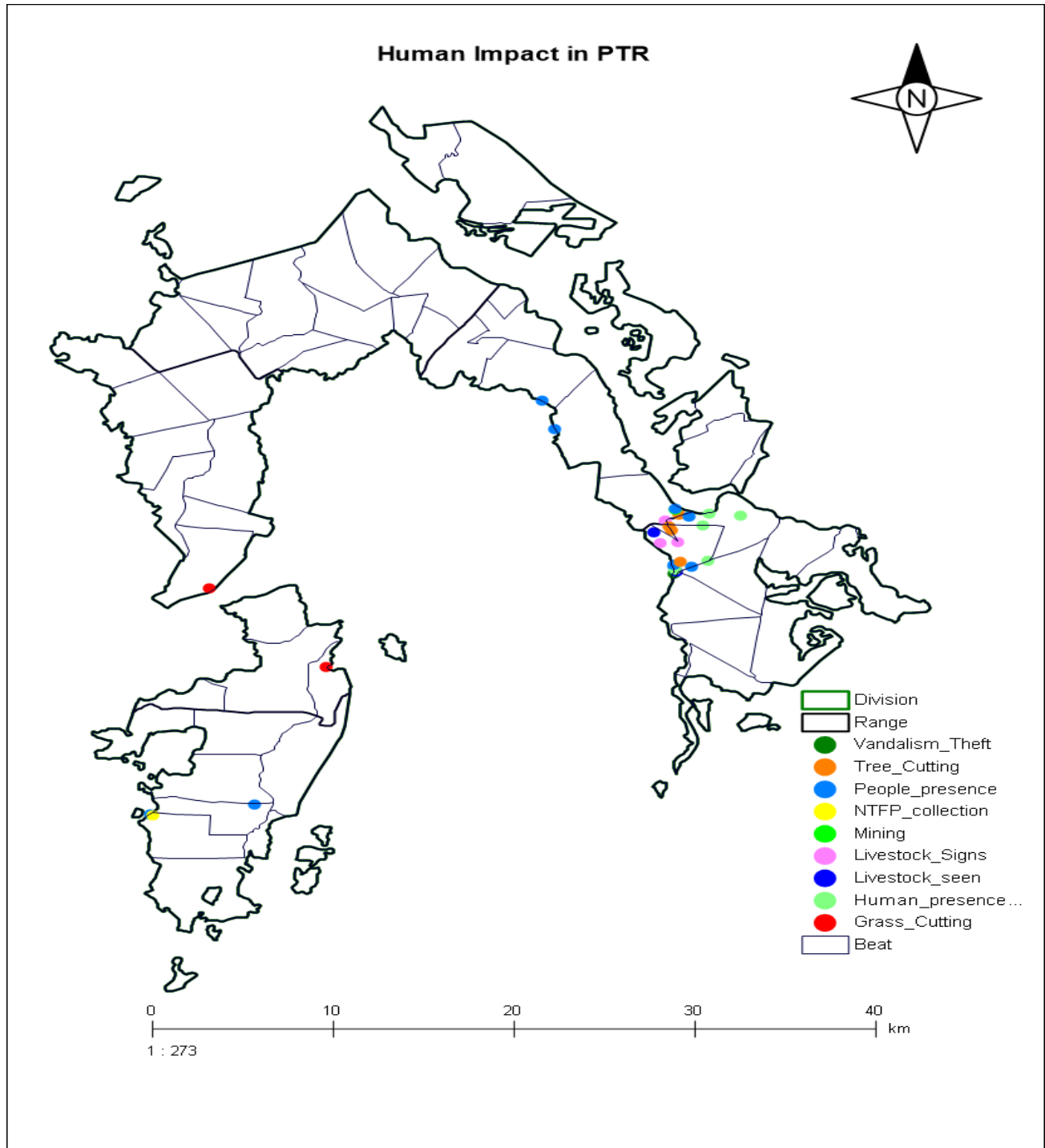
Spatial Analysis All Range in Patrol Intensity



Spatial Analysis Patrol Intensity in Patrol Methods



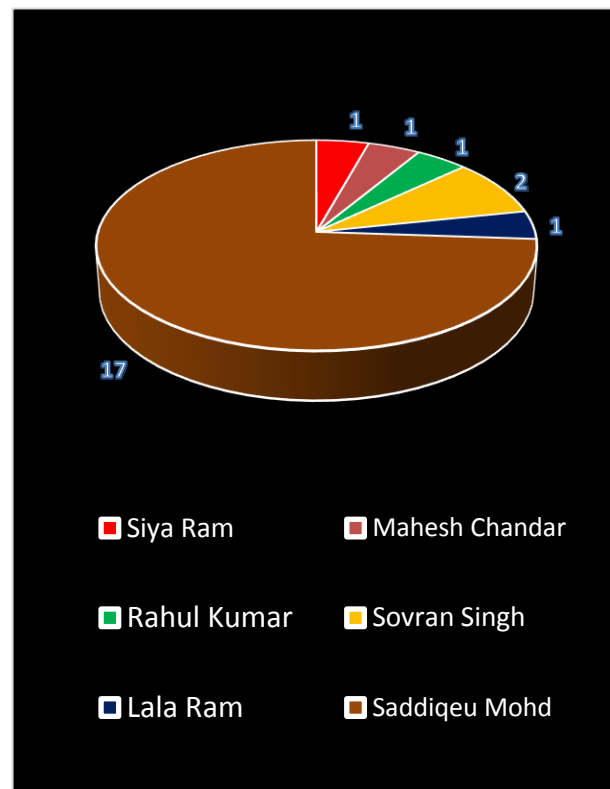
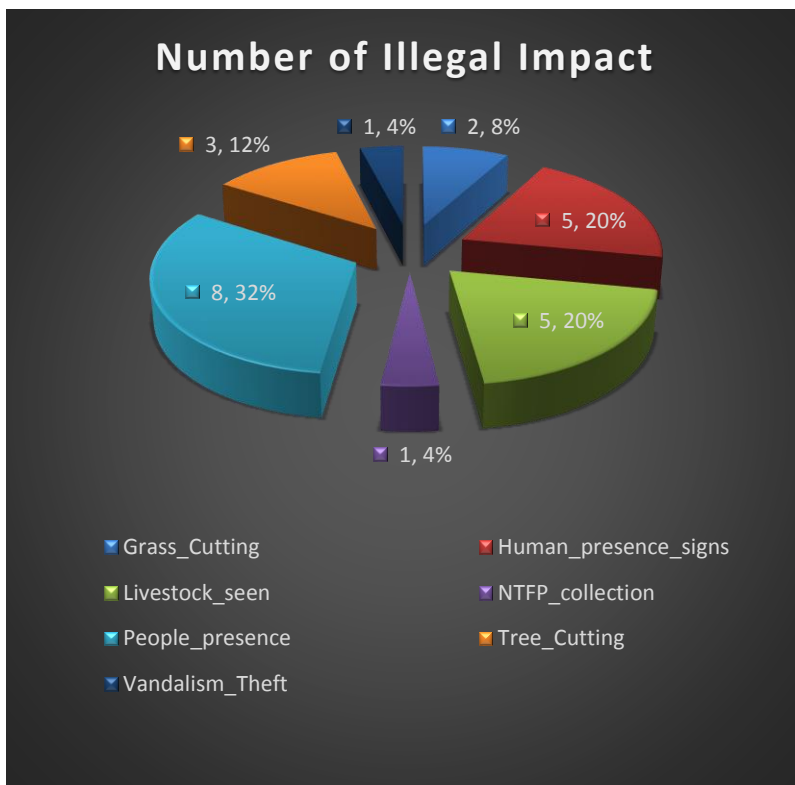
Spatial Analysis Human Impact



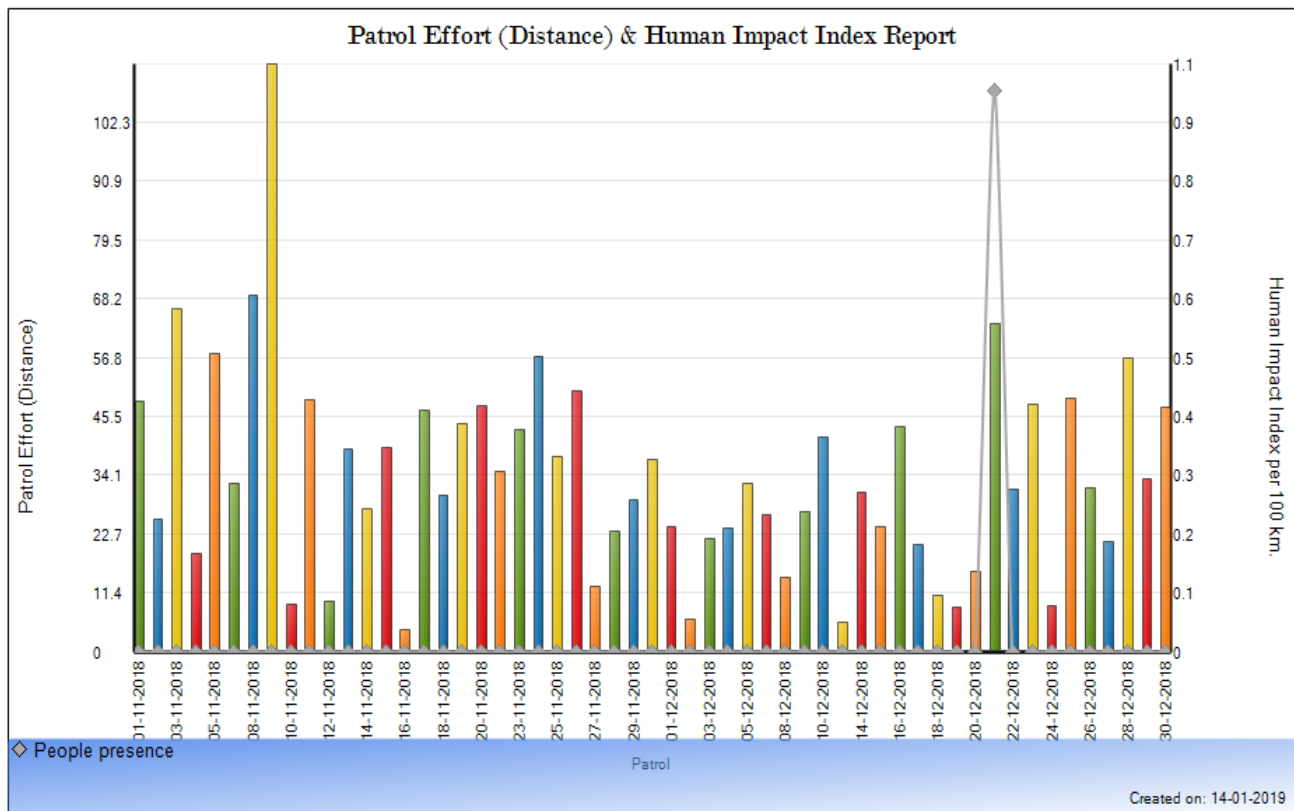
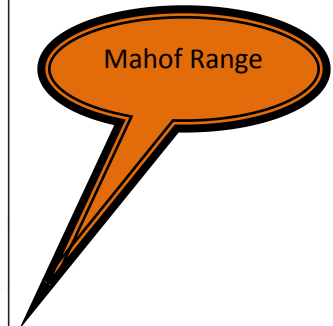
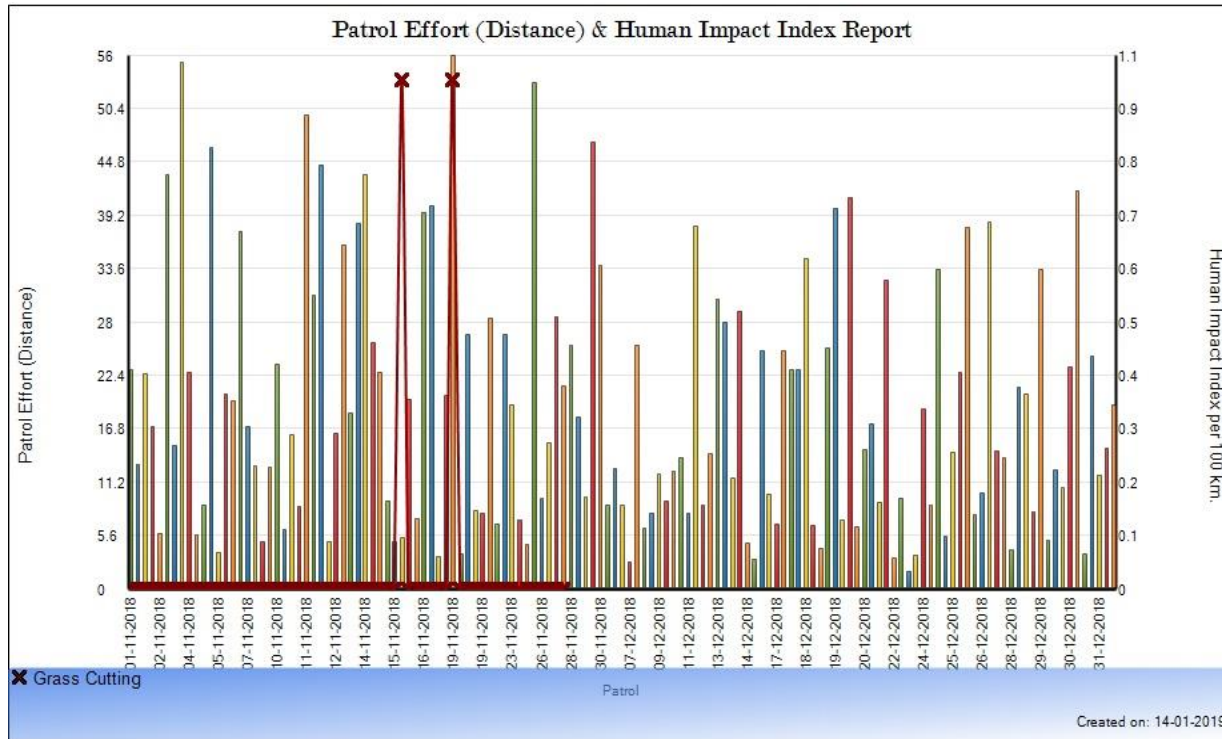
Spatial Analysis Human Impact Summary

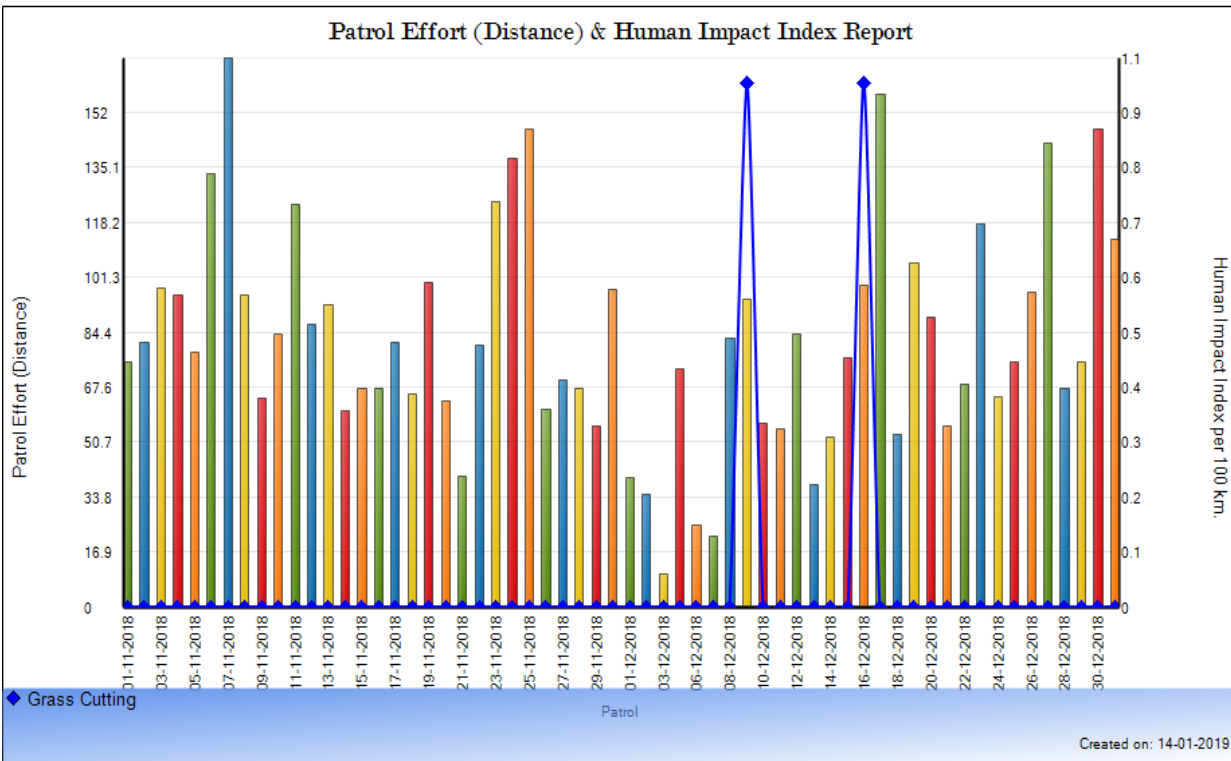
Range	Date	Time	Impact	No. Of Impact	User_Name
Mala	16-12-2018	14:29:52	Grass_Cutting	1	Siya Ram
Mala	09-12-2018	14:55:31	Grass_Cutting	1	Mahesh Chandra
Haripur	08-12-2018	14:48:26	Human_presence_signs	5	Saddiqueu mohd
Haripur	22-12-2018	14:19:18	Livestock_seen	2	saddique mohd
Haripur	09-12-2018	11:14:33	Livestock_Signs	3	Saddiqueu mohd
Deoria	20-12-2018	17:37:50	NTPF_collection	1	sovransingh
Barahi	30-12-2018	15:43:29	People_presence	2	Suresh Verma
Deoria	21-12-2018	13:52:52	People_presence	1	Lala Ram
Deoria	20-12-2018	17:13:36	People_presence	1	sovransingh
Haripur	01-12-2018	14:21:21	People_presence	3	Saddiqueu mohd
All	25-11-2018	16:51:25	People_presence	1	Rahul Kumar
Haripur	31-12-2018	14:23:35	Tree_Cutting	3	saddique mohd
Haripur	08-12-2018	14:59:42	Vandalism_Theft	1	Saddiqueu mohd
Grand Total				25	

Non Spatial Analysis Human Impact

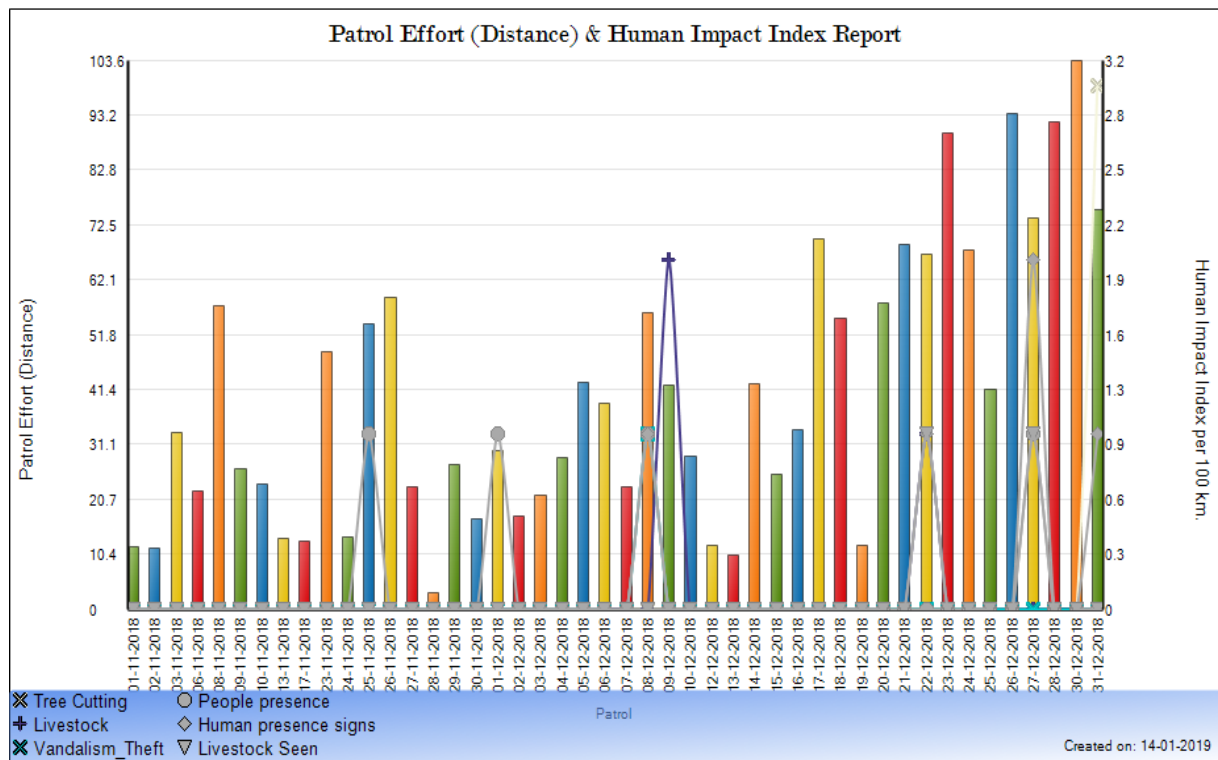


Spatial Analysis Patrol Effort (Distance) & Human Impact Index

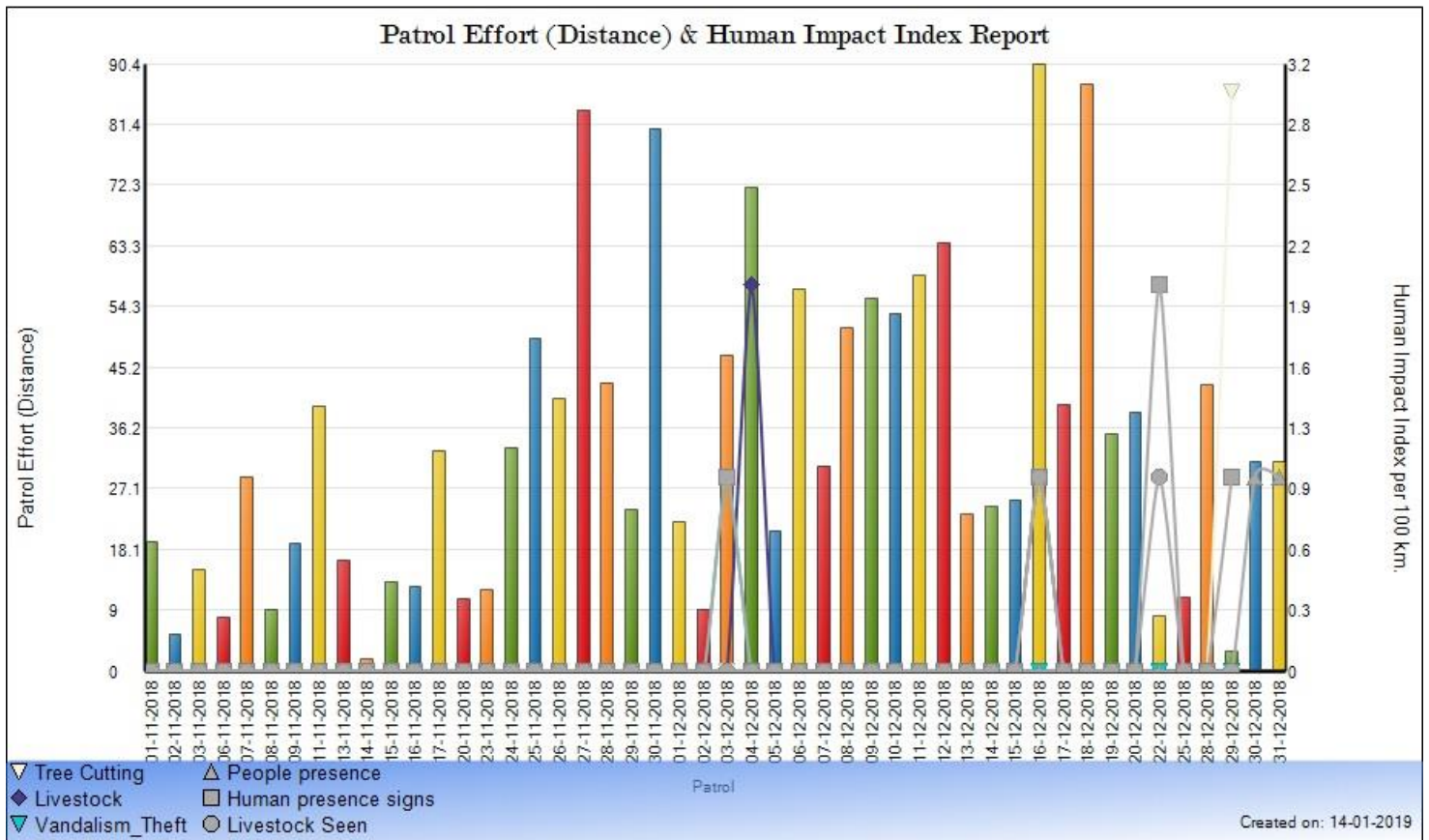




Haripur Range



Barahi Range



Analysis and Comments

1. Total 32 patrol teams were active in the period of reporting.
2. Mala range is most covered of all the five ranges with maximum number of patrollers i.e. 12.
3. Overall approx. 13519 km patrol was done with 843 patrols in two months.
4. Maximum time patrol was done by Shri Natthu Lal Verma of Mala range for which he was felicitated on Republic Day.
5. Maximum number of patrol was done on motorcycle and least on foot. This needs to be improved by enhancing number of foot patrols for more effective monitoring.
6. There are some blank areas in the track map where no MSTRIPES patrol was done. This is mainly due to unavailability of compatible smart phone to the field staff and also due to some technical problem data of some area could not be retrieved.
7. Bordering areas of Uttarakhand and Nepal were well patrolled however some more sensitive areas like Haripur – Kishanpur WLS border and flood plains of river Sharda also need to be covered through MSTRIPES.
8. Staff is motivated to record as many observations to make the patrol more efficient and informative. This has resulted in *string of beads* pattern on track route. Observations are appearing as beads of different colours denoting different signs.
9. A total of 6 patrollers have also recorded human impact signs including illegal activities mostly presence of outsiders and livestock. Other staff is also motivated to come up with as many observations to plan management strategies accordingly. More human impact areas may be backed up by flying squads for example.
10. Apart from the area where no patrol data is available most of the grids are green showing highest patrol intensity was achieved.
11. Patrollers have recorded good number of animal signs of almost all major species.
12. Still hand holding in data analysis is needed for which WII has been requested. Hoping to come up with more analytical and descriptive reports in coming reports detailing the untiring efforts of field staff.

