

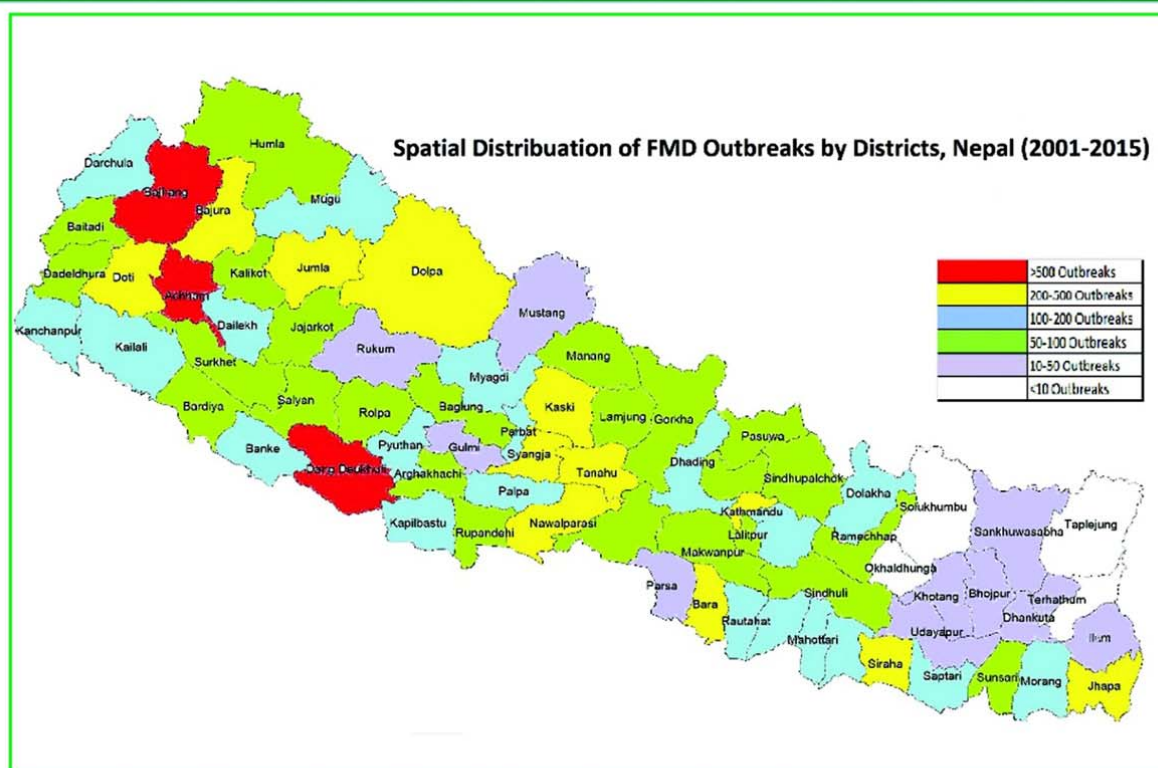
Six- monthly Epidemiological Bulletin

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Situation Analysis of Foot and Mouth Disease (FMD) during 2001-2015 in Nepal



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Preface

It is my pleasure to publish First Six Monthly Epidemiological Bulletin (January to June) 2016. This bulletin is one of the series of epidemiological bulletins being published by Veterinary Epidemiology Centre (VEC) since 1995 which is comprised of detailed information of national animal disease status during the period of January to June 2016.

During January to June 2016, the frequency of monthly epidemiological reporting from the districts is satisfactory as in the previous years. The overall status of reporting from the district was 92.00% and it is slightly lesser (98.66%) as compared to that of first six monthly reports of 2015. Saptari district in the eastern region and Mugu district in the Mid-western region had zero reporting which directly affected the overall percentage of national reporting.

The frequency of monthly epidemiological reporting by development region is presented in divided bar graph which is given inside of this bulletin. Of the 75 districts, all districts have reported different quantities of monthly reports. About 77.33% of the districts have provided us six reports out of six; hence, categorized them as “**very good**”. **Whereas**, 13 districts have reported four to five report out of six hence, these districts are categorized as “**Good**” and rest five districts have reported Zero to two report out of six fall under the category of “**Poor**” in this duration on reporting frequency. By development region, Central region became on the top (98.25%) followed by Western (97.92%), Far-western (92.59%), Eastern (90.63%) and Mid-western (78.89%).

In this bulletin, a special component entitled “**Epidemiological Situation analysis of Foot and Mouth Disease(FMD) in Nepal**” has been included for the easy access to all District Livestock Services Office (DLSO) and other relevant organization of Department of Livestock Services (DLS).

During the period, no significant change is found in major epidemiological trend of animal diseases in the country. Foot and mouth disease (FMD) continued to be a major transboundary animal disease (TADs) of large ruminants. The numbers of FMD outbreaks were increased during the first six month of 2016 as compared to first six month of 2015. During this period of 2016, a total of 117 FMD outbreaks were reported from 37 different districts in the country affecting 5541 animals with death of 237 animals. Similarly, Peste des petits ruminant (PPR) was recorded to be the major TADs in small ruminants. The numbers of PPR outbreaks recorded were 35 with 11211 and 1930 animals affected and died respectively. Besides FMD, Haemorrhagic septicaemia was found to be another important disease of cattle and buffalo. All the outbreaks were controlled by strategic vaccination. Fascioliosis and parasitic gastroenteritis were the major parasitic diseases in large and small ruminants respectively.

In poultry there was no outbreak of Highly Pathogenic Avian Influenza (HPAI) in this period (January-June, 2016). Infectious Bursal disease, Newcastle disease and fowl pox were the major diseases affecting the chicken population.

During this period number of rabies outbreaks was reported to be 31 with 72 animals affected and death.

I would like to express my sincere thanks to all officers of DLSOs and the field technicians who put their efforts in compilation and reporting of monthly reports in time. Likewise, I would like to acknowledge Dr Keshav Prasad Premy, Director General, DLS, Dr. Kishan Chand Thakuri, Deputy Director General, DLS and Dr V.C. Jha, Program Director, Directorate of Animal Health for their encouragement and moral support. Mr. Dhanaraj Rai, Veterinary Officer, Dr. Chanda Shrestha, Veterinary Officer, Mrs. Dhira Devi KC, Animal Health Technician and all the staffs of VEC also deserves thanks for their support. My special thanks go to veterinary officer, Mr. P. R Khanal, and Data entry Assistant, Mr. Nabin Dahal for their remarkable assistance and hard work right from the data entry, data management and analysis to publish the bulletin in this form.

October, 2016

A handwritten signature in black ink, appearing to read 'M Upadhyaya', with a long, sweeping horizontal line extending to the right.

Dr. Mukul Upadhyaya

Senior Veterinary Officer and,
Chief of Veterinary Epidemiology Centre

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Ecozone	District
Mountain	Bajhang
Mountain	Bajura
Mountain	Darchula
Mountain	Dolakha
Mountain	Dolpa
Mountain	Humla
Mountain	Jumla
Mountain	Kalikot
Mountain	Manang
Mountain	Mugu
Mountain	Mustang
Mountain	Rasuwa
Mountain	Sankhuwasava
Mountain	Sindhupalchowk
Mountain	Solukhumbu
Mountain	Taplejung
Total district:	16
Hill	Achham
Hill	Arghakhanchi
Hill	Baglung
Hill	Baitadi
Hill	Bhaktapur
Hill	Bhojpur
Hill	Dadeldhura
Hill	Dailekh
Hill	Dhading
Hill	Dhankuta
Hill	Doti
Hill	Gorkha
Hill	Gulmi
Hill	Ilam
Hill	Jajarkot
Hill	Kaski
Hill	Kathmandu
Hill	Kavre
Hill	Khotang
Hill	Lalitpur
Hill	Lamjung
Hill	Makwanpur
Hill	Myagdi
Hill	Nuwakot
Hill	Okhaldhunga
Hill	Palpa
Hill	Panchthar
Hill	Parbat
Hill	Pyuthan
Hill	Ramechhap
Hill	Rolpa
Hill	Rukum
Hill	Salyan
Hill	Sindhuli
Hill	Surkhet

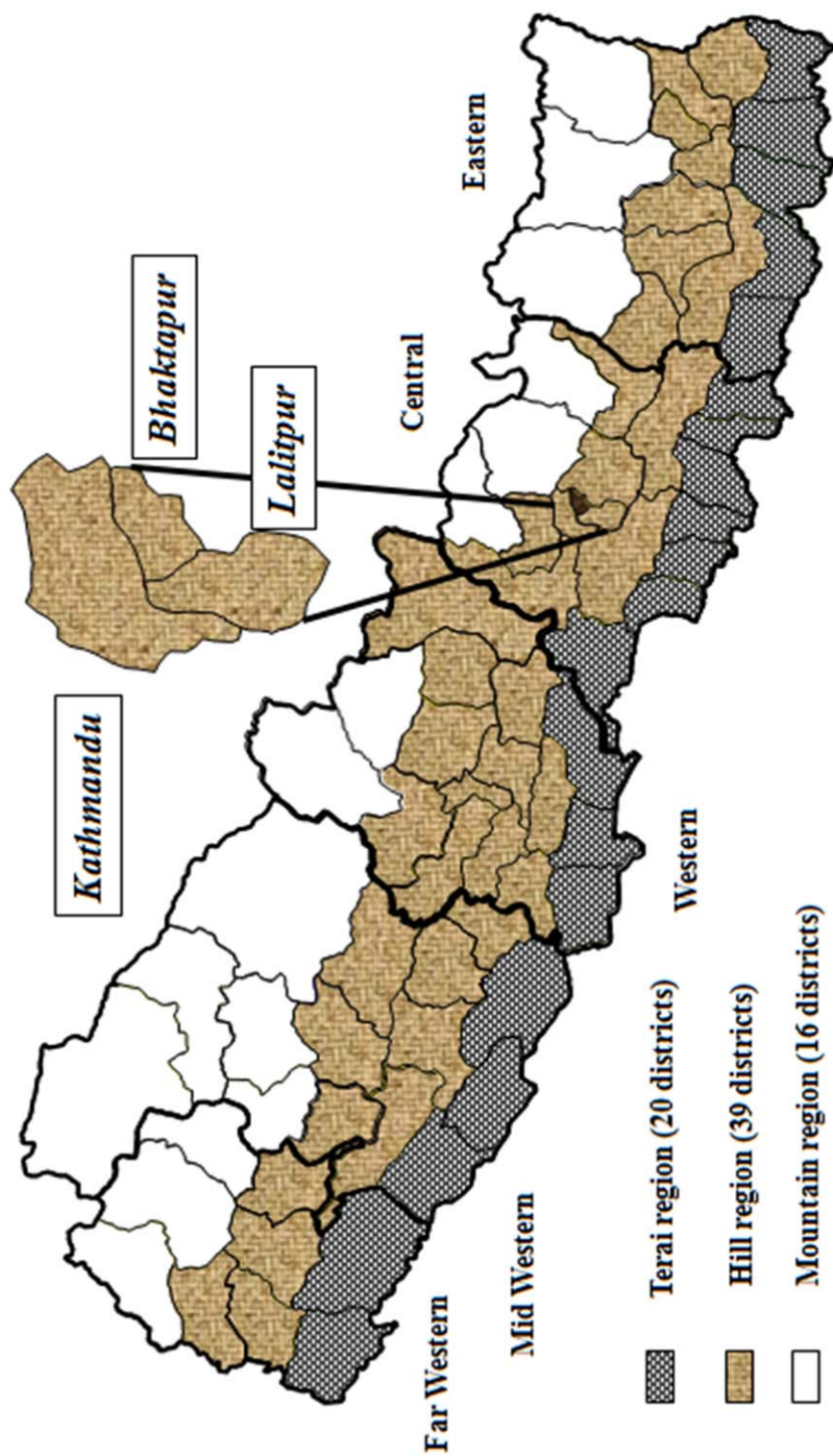
Ecozone	District
Hill	Syangja
Hill	Tanahu
Hill	Terhathum
Hill	Udayapur
Total District:	39
Tarai	Banke
Tarai	Bara
Tarai	Bardiya
Tarai	Chitwan
Tarai	Dang
Tarai	Dhanusha
Tarai	Jhapa
Tarai	Kailali
Tarai	Kanchanpur
Tarai	Kapilbastu
Tarai	Mahottari
Tarai	Morang
Tarai	Nawalparasi
Tarai	Parsa
Tarai	Rautahat
Tarai	Rupandehi
Tarai	Saptari
Tarai	Sarlahi
Tarai	Siraha
Tarai	Sunsari
Total District:	20

Administrative Division of Nepal for Epid. Purpose

ADMN I	ADMN II	CBS Code	Current Epid.Unit	Future Epid.Unit	Ecozone Distributoin
Dev.Region(5)	Zone(14)	CEU Dode	ADMN III (75)	ADMN IV (3915)	
			District	No.of VDCs	
Eastern	Mechi	1	Taplejung	50	Mountain
		2	Panchthar	41	Hill
		3	Ilam	48	Hill
		4	Jhapa	47	Tarai
	Koshi	5	Morang	65	Tarai
		6	Sunsari	49	Tarai
		7	Dhankuta	35	Hill
		8	Terhathum	32	Hill
		9	Sankhuwasava	33	Mountain
		10	Bhojpur	63	Hill
	Sagarmatha	11	Solukhumbu	34	Mountain
		12	Okhaldhunga	56	Hill
		13	Khotang	76	Hill
		14	Udayapur	44	Hill
		15	Saptari	114	Tarai
		16	Siraha	106	Tarai
Central	Janakpur	17	Dhanusha	101	Tarai
		18	Mahottari	76	Tarai
		19	Sarlahi	99	Tarai
		20	Sindhuli	53	Hill
		21	Ramechap	55	Hill
		22	Dolakha	51	Mountain
	Bagmati	23	Sindhupalchowk	79	Mountain
		24	Kavre	87	Hill
		25	Lalitpur	41	Hill
		26	Bhaktapur	16	Hill
		27	Kathmandu	57	Hill
		28	Nuwakot	61	Hill
		29	Rasuwa	18	Mountain
		30	Dhading	50	Hill
	Narayani	31	Makwanpur	43	Hill
		32	Rautahat	96	Tarai
		33	Bara	98	Tarai
		34	Parsa	82	Tarai
		35	Chitwan	36	Tarai
Western	Gandaki	36	Gorkha	66	Hill
		37	Lamjung	61	Hill
		38	Tanahu	46	Hill
		39	Syangja	60	Hill

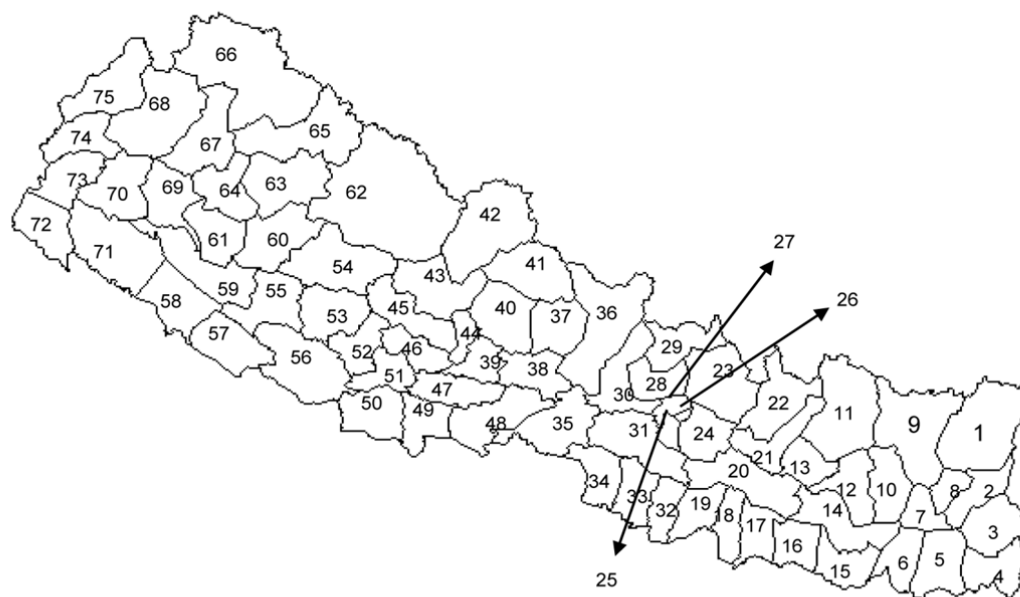
Dev.Region(5)	Zone(14)	CEU Dode	District	No.of VDCs	Ecozone
Western	Gandaki	40	Kaski	43	Hill
		41	Manang	12	Mountain
	Dhawalagiri	42	Mustang	16	Mountain
		43	Myagdi	40	Hill
		44	Parbat	55	Hill
		45	Baglung	59	Hill
	Lumbini	46	Gulmi	79	Hill
		47	Palpa	65	Hill
		48	Nawalparasi	73	Tarai
		49	Rupandehi	69	Tarai
		50	Kapilbastu	77	Tarai
		51	Arghakhanchi	42	Hill
Mid-Western	Rapti	52	Pyuthan	49	Hill
		53	Rolpa	51	Hill
		54	Rukum	43	Hill
		55	Salyan	47	Hill
		56	Dang	39	Tarai
	Bheri	57	Banke	46	Tarai
		58	Bardiya	31	Tarai
		59	Surkhet	50	Hill
		60	Dailekh	55	Hill
		61	Jajarkot	30	Hill
	Karnali	62	Dolpa	23	Mountain
		63	Jumla	30	Mountain
		64	Kalikot	30	Mountain
		65	Mugu	24	Mountain
		66	Humla	27	Mountain
Far-Western	Seti	67	Bajura	27	Mountain
		68	Bajhang	47	Mountain
		69	Achham	75	Hill
		70	Doti	50	Hill
		71	Kailali	42	Tarai
	Mahakali	72	Kanchanpur	19	Tarai
		73	Dadeldhura	20	Hill
		74	Baitadi	62	Hill
		75	Darchula	41	Mountain

Map of Nepal showing Eco-zone and administrative Divisions



Source: Veterinary Epidemiology Center

Map of Nepal Showing District Code (Veterinary Epidemiology Centre)

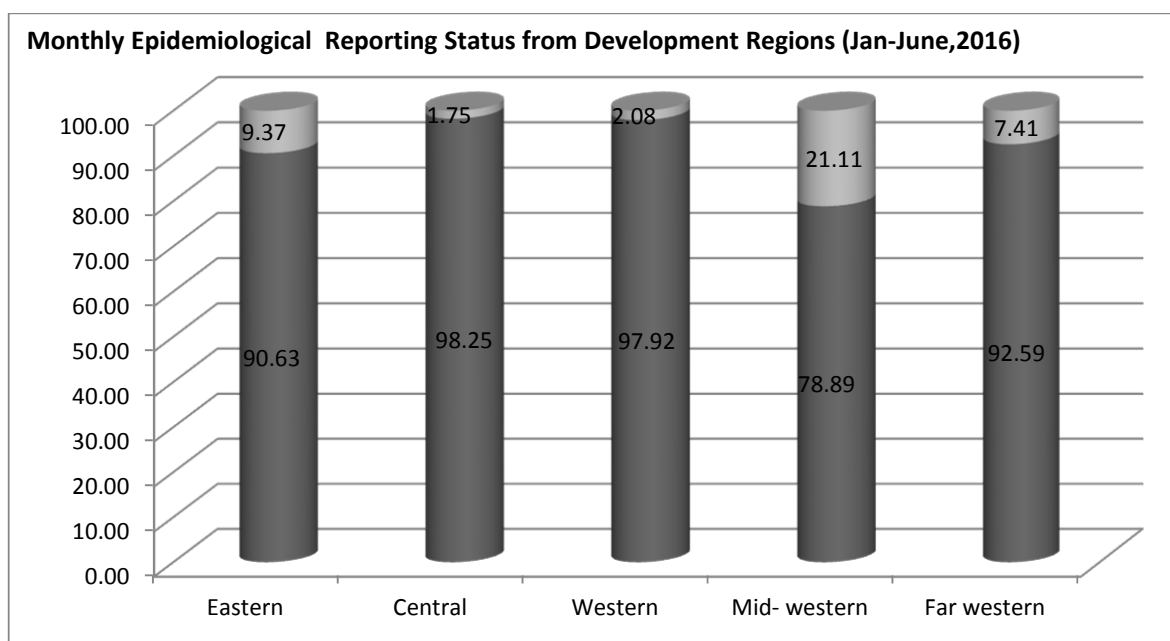
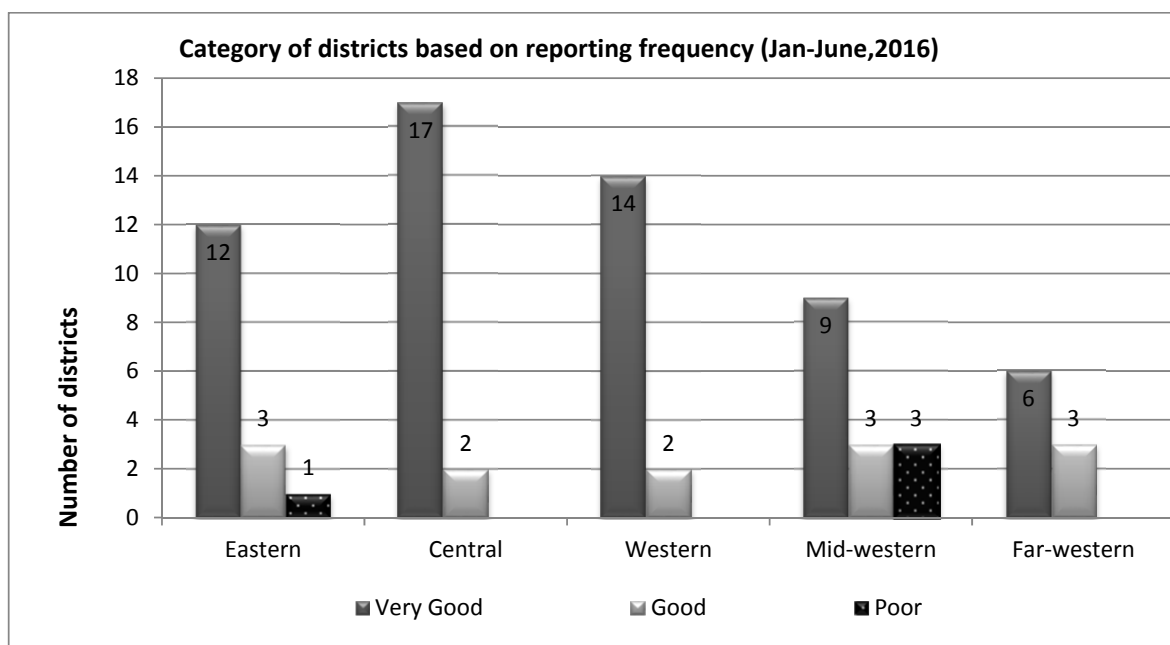


S. No. (district code)	District	S. No. (district code)	District	S. No. (district code)	District
1	Taplejung	26	Bhaktapur	51	Argakhanchi
2	Panchthar	27	Kathmandu	52	Pyuthan
3	Ilam	28	Nuwakot	53	Rolpa
4	Jhapa	29	Rasuwa	54	Rukum
5	Morang	30	Dhading	55	Salyan
6	Sunsari	31	Makwanpur	56	Dang
7	Dhankuta	32	Rautahat	57	Banke
8	Terathum	33	Bara	58	Bardiya
9	Sankhushava	34	Parsa	59	Surkhet
10	Bhojpur	35	Chitwan	60	Dailekh
11	Solukhumbu	36	Gorkha	61	Jajarkot
12	Okhaldhunga	37	Lamjung	62	Dolpa
13	Khotang	38	Tanahun	63	Jumla
14	Udayapur	39	Syanga	64	Kalikot
15	Saptari	40	Kaski	65	Mugu
16	Siraha	41	Manang	66	Humla
17	Dhanusha	42	Mustang	67	Bajura
18	Mahottari	43	Myagdi	68	Bajhang
19	Sarlahi	44	Parbat	69	Achham
20	Sindhuli	45	Baglung	70	Doti
21	Ramechhap	46	Gulmi	71	Kailali
22	Dolakha	47	Palpa	72	Kanchanpur
23	Sindhupalchok	48	Nawalparasi	73	Dadeldhura
24	Kavre	49	Rupandehi	74	Baitadi
25	Lalitpur	50	Kapilbastu	75	Darchula

Monthly Disease reports Received in First Sixmonth 2016

Frequency of reporting	Districts	Number of reports received
0	2	
	Saptari	0
	Mugu	0
2	2	
	Rukum	2
	Dolpa	2
4	3	
	Salyan	4
	Jumla	4
	Darchula	4
5	10	
	Dhankuta	5
	Sankhuwasava	5
	Siraha	5
	Sindhupalchowk	5
	Chitwan	5
	Mustang	5
	Kapilbastu	5
	Jajarkot	5
	Kanchanpur	5
	Dadeldhura	5
6	58	
	Taplejung	6
	Panchthar	6
	Ilam	6
	Jhapa	6
	Morang	6
	Sunsari	6
	Terhathum	6
	Bhojpur	6
	Solukhumbu	6
	Okhaldhunga	6
	Khotang	6
	Udayapur	6
	Dhanusha	6
	Mahottari	6
	Sarlahi	6
	Sindhuli	6
	Ramechhap	6

Frequency of reporting	Districts	Number of reports received
	Dolakha	6
	Kavre	6
	Lalitpur	6
	Bhaktapur	6
	Kathmandu	6
	Nuwakot	6
	Rasuwa	6
	Dhading	6
	Makwanpur	6
	Rautahat	6
	Bara	6
	Parsa	6
	Gorkha	6
	Lamjung	6
	Tanahu	6
	Syangja	6
	Kaski	6
	Manang	6
	Myagdi	6
	Parbat	6
	Baglung	6
	Gulmi	6
	Palpa	6
	Nawalparasi	6
	Rupandehi	6
	Arghakhanchi	6
	Pyuthan	6
	Rolpa	6
	Dang	6
	Banke	6
	Bardiya	6
	Surkhet	6
	Dailekh	6
	Kalikot	6
	Humla	6
	Bajura	6
	Bajhang	6
	Achham	6
	Doti	6
	Kailali	6
	Baitadi	6



Very Good (6)	90.63	98.25	97.92	78.89	92.59
Good (≤5)	9.37	1.75	2.08	21.11	7.41

List of Possible Animal diseases in Nepal

CEU code	DISEASE	OIE CODE	OIE LIST	Diagnosis status
H7N9	AI(HPAI)			C
H5N1	AI(HPAI)			C
H9	AI(HPAI)			C
FMD	Foot and mouth disease	A010	A	C
FMD-O	FMD - Virus O	A011	A	C
FMD-A	FMD - Virus A	A012	A	C
FMD-C	FMD - Virus C	A013	A	C
FMD-AS	FMD - Virus Asia 1	A017	A	C
RP	Rinderpest	A040	A	(1990)
PPR	Peste des petits ruminants	A050	A	C
SGP	Sheep and goat pox	A100	A	D
CSF	Classical swine fever (Hog cholera)	A130	A	D
ND	Newcastle disease / Ranikhet	A160	A	C
ANT	Anthrax	B051	B	C
AUJ	Aujeszky's disease	B052	B	D
ECH	Echinococcosis/Hydatidosis	B053	B	C
LPT	Leptospirosis	B056	B	C
RAB	Rabies	B058	B	C
PTB	Paratuberculosis / Johne's disease	B059	B	C
ANA	Anaplasmosis	B101	B	C
BAB	Babesiosis	B102	B	C
BRA	Bovine brucellosis (B. abortus)	B103	B	
BGC	Bovine genital campylobacteriosis	B104	B	
BTB	Bovine tuberculosis	B105	B	C
BCY	Bovine cysticercosis (C. bovis)	B106	B	D
DRM	Dermatophilosis	B107	B	D
HS	Haemorrhagic septicaemia	B109	B	C
THL	Theileriosis	B111	B	C
TCH	Trichomoniasis	B112	B	
BRO	Ovine epididymitis (Brucella ovis)	B151	B	
BRM	Caprine and ovine brucellosis (B. melitensis)	B152	B	
EIA	Equine infectious anaemia	B205	B	
EQI	Equine influenza (Virus type A)	B206	B	
JAP	Japanese encephalitis	B212	B	C
HMNG	Horse mange	B213	B	D
TRY	Bovine Trypanosomiasis (T.evansi)	B215	B	C
SUR	Surra (T. evansi)	B215	B	C
SCY	Cysticercosis (C. cellulosae)	B252	B	C
AIB	Avian infectious bronchitis	B301	B	C
ALT	Avian infectious laryngotracheitis	B302	B	C
ATB	Avian tuberculosis	B303	B	C
DVH	Duck virus hepatitis	B304	B	

CEU code	DISEASE	OIE CODE	OIE LIST	Diagnosis status
DVE	Duck virus enteritis	B305	B	
FCH	Fowl cholera	B306	B	C
FPX	Fowl pox	B307	B	C
FTY	Fowl typhoid (S. gallinarum)	B308	B	C
IBD	Infectious bursal disease (Gumboro disease)	B309	B	C
MRK	Marek's disease	B310	B	C
MYG	Mycoplasmosis (M. gallisepticum)	B311	B	C
AVC	Avian chlamydiosis (psittacosis and ornithosis)	B312	B	
PUL	Pullorum disease (S. pullorum)	B313	B	C
LEI	Leishmaniasis	B501	B	
LIS	Listeriosis	C611	C	
TPL	Toxoplasmosis	C612	C	C
BQR	Blackquarter	C614	C	C
BOT	Botulism	C615	C	
BCH	Bacillary haemoglobinuria	C616	C	C
CLD	Other clostridial infections	C616	C	
PAS	Other pasteurelloses	C617	C	C
AMY	Actinomycosis / Lumpy jaw	C618	C	C
SAL	Intestinal Salmonella infections	C619	C	C
COC	Coccidiosis	C620	C	C
FLK	Liver fluke / Fascioliasis / Distomatosis	C621	C	C
FIL	Filariasis	C622	C	C
BVD	Mucosal disease/Bovine virus diarrhoea	C652	C	
ORF	Contagious pustular dermatitis	C701	C	
FTR	Foot-rot	C702	C	C(1992)
ETX	Enterotoxaemia	C704	C	C
CLM	Caseous lymphadenitis	C705	C	C
SMNG	Sheep mange	C706	C	
STR	Strangles	C753	C	D
ERY	Swine erysipelas	C801	C	D
ICR	Infectious coryza	C851	C	C
AVE	Avian encephalomyelitis	C853	C	C
ASL	Avian salmonellosis (excluding Fowl typhoid-B308 and Pullorum disease-B313)	C855	C	C
ALE	Avian leucosis	C856	C	C
DST	Canine distemper	C921	C	D
EPH	Ephemeral fever		U	D
PRM	Paramphistomosis		U	C
TPW	Tapeworm		U	C
BWD	Bacillary white diarrhoea		U	C
MKF	Milk fever		U	C
DYS	Dystocia		U	
ABR	Abortion		U	
CVI	Chicken anaemia virus infection		U	
LIC	Lice		U	

CEU code	DISEASE	OIE CODE	OIE LIST	Diagnosis status
PNU	Pneumonia		U	
BPX	Buffalo pox		U	D
EBH	Enzootic bovine haematuria		U	C
STM	Stomatitis		U	
SKR	Sukharia / Lantana poisoning		U	D
RES	Respiratory disease - unclassified		U	
MTR	Metritis		U	
LITCHY	Hydropericardium Syndrome of chickens		U	C
RDW	Roundworm		U	
OST	Ostertagia		U	C
ACC	Accident and injuries		U	
COE	Coenurus		U	C
COB	Colibacillosis		U	C
LNG	Lungworm		U	C
HMC	Haemonchus		U	C
MET	Metabolic disease		U	
MNG	Mange		U	C
TET	Tetanus		U	C
OES	Oestrus ovis		U	C
MAS	Mastitis		U	C
PGE	Parasitic gastroenteritis		U	C
RWM	Ringworm		U	C
VEN	Venereal disease		U	
WMD	White muscle disease		U	
DEG	Degnala disease		U	C
KHA	Khari disease		U	D
SET	Setariasis		U	D
NEM	Nematodirus		U	C

National Sixmonthly Diseases Report

First Sixmonth

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	117	48393	5541	237	356378	5304
A050	PPR	Peste des petits ruminants	35	14912	11211	1930	1526928	9281
A100	SGP	Sheep and goat pox	18	300	637	10	0	627
A130	CSF	Classical swine fever (Hog cholera)	3	1015	45	27	25436	18
A160	ND	Newcastle disease / Ranikhet	158	101340	54735	5202	261219	49533
B051	ANT	Anthrax	2	260	9	9	558	0
B058	RAB	Rabies	31	100	72	72	12197	0
B102	BAB	Babesiosis	1	0	4	0	0	4
B103	BRA	Bovine brucellosis (B. abortus)	5	0	17	0	0	17
B106	BCY	Bovine cysticercosis (C. bovis)	0	0	2	0	0	2
B109	HS	Haemorrhagic septicaemia	23	54	745	44	242149	701
B111	THL	Theileriosis	56	310	356	9	0	347
B113	TRYP	Trypanosomiasis (tsetse borne)	20	0	114	4	0	110
B154	CAG	Contagious agalactia	0	0	26	0	0	26
B301	AIB	Avian infectious bronchitis	64	88000	7639	1340	29600	6299
B306	FCH	Fowl cholera	43	60000	10619	1154	0	9465
B307	FPX	Fowl pox	174	12020	5736	474	7560	5262
B308	FTY	Fowl typhoid (S. gallinarum)	23	3000	13615	1039	2352	12576
B309	IBD	Infectious bursal disease (Gumboro disease)	230	96649	134347	7796	154749	11759
B310	MRK	Marek's disease	3	0	2364	0	0	2364
B313	PUL	Pullorum disease (S. pullorum)	78	10260	12913	1426	0	11487
C614	BQR	Blackquarter	24	1050	1782	30	192967	1752
C618	AMY	Actinomycosis / Lumpy jaw	4	0	8	0	0	8
C620	COC	Coccidiosis	1368	80661	100498	4023	0	96475
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	303958	167	0	303791
C654	WRB	Warble infestation	0	0	2303	17	0	2286
C701	ORF	Contagious pustular dermatitis	0	0	4	0	0	4
C704	ETX	Enterotoxaemia	145	1186	820	20	0	800
C851	ICR	Infectious coryza	0	0	2125	35	0	2090
	ABR	Abortion	0	0	14929	33	0	14896
	CGH	Cough	0	0	16234	0	0	16234
	COB	Colibacillosis	155	12500	77202	3183	0	74019

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Numrer of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	CSC	Calf-scour	0	0	150	0	0	150
	DRA	Diarrhoea	1	221	215096	4062	0	211034
	DYS	Dystocia	0	0	6114	23	0	6091
	EBH	Enzootic bovine haematuria	19	0	53	1	0	52
	EPH	Ephemeral fever	126	1126	6009	11	0	5998
	EXP	External parasites	0	315	157366	648	0	156718
	FLN	Foot lesion	0	0	6	0	0	6
	FRA	Fracture	0	0	341	0	0	341
	GIN	Gastro-intestinal nematodes	0	0	3804	0	0	3804
	HEI	Hydatidosis / Echinococcus Infestation	46	1100	3553	2	0	3551
	HMC	Haemonchus	0	0	4	0	0	4
	INF	Infertility	0	0	40889	0	0	40889
	INH	Intestinal helminthiasis	0	350	60703	756	0	59947
	KHA	Khari disease	12	0	87	0	0	87
	MAS	Mastitis	0	0	19702	4	0	19698
	MKF	Milk fever	0	0	4105	9	0	4096
	MNG	Mange	0	0	77116	24	0	77092
	MTR	Metritis	0	0	416	0	0	416
	MTS	Mycotoxycosis	56	0	38051	1533	0	36518
	NVS	Nervous sign	92	0	14440	727	0	13713
	PGE	Parasitic gastroenteritis	0	0	113338	439	0	112899
	PNU	Pneumonia	0	0	3602	20	0	3582
	PRM	Paramphistomosis	0	0	115631	18	0	115613
	PSN	Poisoning	0	0	23021	425	0	22596
	RDW	Roundworm	0	0	12270	30	0	12240
	RES	Respiratory disease - unclassified	475	23052	231217	8472	0	222745
	RSS	Respiratory sign	55	640	19465	400	0	19065
	RUE	Red urine	0	0	5194	44	0	5150
	RWM	Ringworm	0	0	79	0	0	79
	SDN	Sudden death	122	21	1070	1070	0	0
	SKL	Skin lesions	0	80	25756	0	0	25756
	STM	Stomatitis	0	0	760	1	0	759
	TMP	Tympany	0	0	22869	74	0	22795
	TPW	Tapeworm	0	0	131	0	0	131
	WND	Wound	0	0	30446	13	0	30433

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Ecozone:Mountain

Year:2016

Period:Jan.-16 to Jun.-16

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	13	3470	93	4	15322	89
A050	PPR	Peste des petits ruminants	10	600	1246	881	117825	365
A100	SGP	Sheep and goat pox	2	300	29	0	0	29
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	500	0
A160	ND	Newcastle disease / Ranikhet	29	1340	8619	100	45825	8519
B058	RAB	Rabies	5	100	10	10	1722	0
B102	BAB	Babesiosis	1	0	4	0	0	4
B109	HS	Haemorrhagic septicaemia	4	3	44	5	38373	39
B111	THL	Theileriosis	10	310	25	0	0	25
B306	FCH	Fowl cholera	27	0	299	8	0	291
B307	FPX	Fowl pox	20	1190	442	1	0	441
B308	FTY	Fowl typhoid (S. gallinarum)	1	0	2654	47	0	2607
B309	IBD	Infectious bursal disease (Gumboro disease)	17	780	866	25	1400	841
B313	PUL	Pullorum disease (S. pullorum)	17	3100	1687	200	0	1487
C614	BQR	Blackquarter	3	0	12	3	23499	9
C620	COC	Coccidiosis	189	4688	6875	181	0	6694
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	61403	43	0	61362
C654	WRB	Warble infestation	0	0	238	0	0	238
C701	ORF	Contagious pustular dermatitis	0	0	4	0	0	4
C704	ETX	Enterotoxaemia	44	1065	110	8	0	102
	ABR	Abortion	0	0	1671	0	0	1671
	CGH	Cough	0	0	6308	0	0	6308
	DRA	Diarrhoea	0	221	17673	281	0	17392
	DYS	Dystocia	0	0	594	0	0	594
	EBH	Enzootic bovine haematuria	2	0	9	1	0	8
	EPH	Ephemeral fever	17	1120	558	0	0	558
	EXP	External parasites	0	315	42045	345	0	41700
	FRA	Fracture	0	0	243	0	0	243
	GIN	Gastro-intestinal nematodes	0	0	1680	0	0	1680
	HEI	Hydatidosis / Echinococcus Infestation	30	1100	447	0	0	447
	INF	Infertility	0	0	4792	0	0	4792

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	INH	Intestinal helminthiasis	0	350	16718	4	0	16714
	MAS	Mastitis	0	0	1457	0	0	1457
	MKF	Milk fever	0	0	356	0	0	356
	MNG	Mange	0	0	16422	19	0	16403
	MTS	Mycotoxycosis	1	0	500	3	0	497
	NVS	Nervous sign	4	0	129	1	0	128
	PGE	Parasitic gastroenteritis	0	0	19901	18	0	19883
	PNU	Pneumonia	0	0	2202	2	0	2200
	PRM	Paramphistomosis	0	0	18803	0	0	18803
	PSN	Poisoning	0	0	1415	50	0	1365
	RDW	Roundworm	0	0	768	0	0	768
	RES	Respiratory disease - unclassified	37	1526	6711	511	0	6200
	RSS	Respiratory sign	3	140	1061	6	0	1055
	RUE	Red urine	0	0	1479	4	0	1475
	SDN	Sudden death	37	0	240	240	0	0
	SKL	Skin lesions	0	80	1782	0	0	1782
	STM	Stomatitis	0	0	120	0	0	120
	TMP	Tympany	0	0	3030	13	0	3017
	WND	Wound	0	0	5875	9	0	5866

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Sixmonthly Diseases Report First Sixmonth

Ecozone: Hill

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	70	3906	3336	114	128391	3222
A050	PPR	Peste des petits ruminants	8	0	1512	395	740531	1117
A100	SGP	Sheep and goat pox	13	0	265	0	0	265
A130	CSF	Classical swine fever (Hog cholera)	2	15	21	3	19890	18
A160	ND	Newcastle disease / Ranikhet	12	0	10091	465	123644	9626
B051	ANT	Anthrax	2	260	9	9	558	0
B058	RAB	Rabies	8	0	15	15	5960	0
B103	BRA	Bovine brucellosis (B. abortus)	4	0	14	0	0	14
B106	BCY	Bovine cysticercosis (C. bovis)	0	0	2	0	0	2
B109	HS	Haemorrhagic septicaemia	11	0	525	19	119853	506
B111	THL	Theileriosis	1	0	2	0	0	2
B154	CAG	Contagious agalactia	0	0	26	0	0	26
B301	AIB	Avian infectious bronchitis	9	0	640	37	0	603
B306	FCH	Fowl cholera	2	0	180	0	0	180
B307	FPX	Fowl pox	133	5510	4729	227	60	4502
B308	FTY	Fowl typhoid (S. gallinarum)	2	0	2954	61	2352	2893
B309	IBD	Infectious bursal disease (Gumboro disease)	89	8680	86436	2032	62774	84404
B310	MRK	Marek's disease	2	0	1684	0	0	1684
B313	PUL	Pullorum disease (S. pullorum)	9	100	5626	185	0	5441
C614	BQR	Blackquarter	2	50	11	2	85460	9
C618	AMY	Actinomycosis / Lumpy jaw	1	0	3	0	0	3
C620	COC	Coccidiosis	626	5342	69217	2264	0	66953
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	163116	118	0	162996
C654	WRB	Warble infestation	0	0	299	0	0	299
C704	ETX	Enterotoxaemia	32	45	300	5	0	295
C851	ICR	Infectious coryza	0	0	2125	35	0	2090
	ABR	Abortion	0	0	5345	2	0	5343
	CGH	Cough	0	0	8707	0	0	8707
	COB	Colibacillosis	81	0	59150	1002	0	58148
	DRA	Diarrhoea	1	0	121783	1802	0	119981
	DYS	Dystocia	0	0	2596	21	0	2575

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	EBH	Enzootic bovine haematuria	17	0	44	0	0	44
	EPH	Ephemeral fever	39	6	2215	6	0	2209
	EXP	External parasites	0	0	93150	18	0	93132
	FLN	Foot lesion	0	0	6	0	0	6
	FRA	Fracture	0	0	49	0	0	49
	GIN	Gastro-intestinal nematodes	0	0	1669	0	0	1669
	HEI	Hydatidosis / Echinococcus Infestation	8	0	3076	0	0	3076
	HMC	Haemonchus	0	0	4	0	0	4
	INF	Infertility	0	0	17301	0	0	17301
	INH	Intestinal helminthiasis	0	0	32803	440	0	32363
	KHA	Khari disease	12	0	87	0	0	87
	MAS	Mastitis	0	0	7984	0	0	7984
	MKF	Milk fever	0	0	1683	0	0	1683
	MNG	Mange	0	0	46576	2	0	46574
	MTS	Mycotoxicosis	2	0	12695	56	0	12639
	NVS	Nervous sign	76	0	5711	90	0	5621
	PGE	Parasitic gastroenteritis	0	0	61036	53	0	60983
	PNU	Pneumonia	0	0	1322	18	0	1304
	PRM	Paramphistomosis	0	0	55288	3	0	55285
	PSN	Poisoning	0	0	20889	375	0	20514
	RDW	Roundworm	0	0	4813	30	0	4783
	RES	Respiratory disease - unclassified	203	1276	165733	4199	0	161534
	RSS	Respiratory sign	42	0	15038	358	0	14680
	RUE	Red urine	0	0	1994	38	0	1956
	RWM	Ringworm	0	0	69	0	0	69
	SDN	Sudden death	59	21	325	325	0	0
	SKL	Skin lesions	0	0	16190	0	0	16190
	STM	Stomatitis	0	0	637	1	0	636
	TMP	Tympany	0	0	10851	40	0	10811
	TPW	Tapeworm	0	0	81	0	0	81
	WND	Wound	0	0	10532	4	0	10528

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Ecozone: Tarai

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	34	41017	2112	119	212665	1993
A050	PPR	Peste des petits ruminants	17	14312	8453	654	668572	7799
A100	SGP	Sheep and goat pox	3	0	343	10	0	333
A130	CSF	Classical swine fever (Hog cholera)	1	1000	24	24	5046	0
A160	ND	Newcastle disease / Ranikhet	117	100000	36025	4637	91750	31388
B058	RAB	Rabies	19	0	48	48	5213	0
B103	BRA	Bovine brucellosis (B. abortus)	1	0	3	0	0	3
B109	HS	Haemorrhagic septicaemia	8	51	176	20	83923	156
B111	THL	Theileriosis	45	0	329	9	0	320
B113	TRYP	Trypanosomiasis (tsetse borne)	20	0	114	4	0	110
B301	AIB	Avian infectious bronchitis	55	88000	6999	1303	29600	5696
B306	FCH	Fowl cholera	14	60000	10140	1146	0	8994
B307	FPX	Fowl pox	21	5320	565	246	7500	319
B308	FTY	Fowl typhoid (S. gallinarum)	20	3000	8007	931	0	7076
B309	IBD	Infectious bursal disease (Gumboro disease)	124	87189	48045	5699	0	32346
B310	MRK	Marek's disease	1	0	680	0	0	680
B313	PUL	Pullorum disease (S. pullorum)	52	7060	5600	1041	0	4559
C614	BQR	Blackquarter	19	1000	1759	25	84008	1734
C618	AMY	Actinomycosis / Lumpy jaw	3	0	5	0	0	5
C620	COC	Coccidiosis	553	70631	24406	1578	0	22828
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	79439	6	0	79433
C654	WRB	Warble infestation	0	0	1766	17	0	1749
C704	ETX	Enterotoxaemia	69	76	410	7	0	403
	ABR	Abortion	0	0	7913	31	0	7882
	CGH	Cough	0	0	1219	0	0	1219
	COB	Colibacillosis	74	12500	18052	2181	0	15871
	CSC	Calf-scour	0	0	150	0	0	150
	DRA	Diarrhoea	0	0	75640	1979	0	73661
	DYS	Dystocia	0	0	2924	2	0	2922
	EPH	Ephemeral fever	70	0	3236	5	0	3231
	EXP	External parasites	0	0	22171	285	0	21886

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	FRA	Fracture	0	0	49	0	0	49
	GIN	Gastro-intestinal nematodes	0	0	455	0	0	455
	HEI	Hydatidosis / Echinococcus Infestation	8	0	30	2	0	28
	INF	Infertility	0	0	18796	0	0	18796
	INH	Intestinal helminthiasis	0	0	11182	312	0	10870
	MAS	Mastitis	0	0	10261	4	0	10257
	MKF	Milk fever	0	0	2066	9	0	2057
	MNG	Mange	0	0	14118	3	0	14115
	MTR	Metritis	0	0	416	0	0	416
	MTS	Mycotoxycosis	53	0	24856	1474	0	23382
	NVS	Nervous sign	12	0	8600	636	0	7964
	PGE	Parasitic gastroenteritis	0	0	32401	368	0	32033
	PNU	Pneumonia	0	0	78	0	0	78
	PRM	Paramphistomosis	0	0	41540	15	0	41525
	PSN	Poisoning	0	0	717	0	0	717
	RDW	Roundworm	0	0	6689	0	0	6689
	RES	Respiratory disease - unclassified	235	20250	58773	3762	0	55011
	RSS	Respiratory sign	10	500	3366	36	0	3330
	RUE	Red urine	0	0	1721	2	0	1719
	RWM	Ringworm	0	0	10	0	0	10
	SDN	Sudden death	26	0	505	505	0	0
	SKL	Skin lesions	0	0	7784	0	0	7784
	STM	Stomatitis	0	0	3	0	0	3
	TMP	Tympany	0	0	8988	21	0	8967
	TPW	Tapeworm	0	0	50	0	0	50
	WND	Wound	0	0	14039	0	0	14039

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Eastern

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	10	7400	1018	5	48017	1013
A050	PPR	Peste des petits ruminants	7	2000	4562	88	255573	4474
A100	SGP	Sheep and goat pox	8	0	373	10	0	363
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	500	0
A160	ND	Newcastle disease / Ranikhet	14	0	1412	85	60950	1327
B058	RAB	Rabies	16	0	43	43	2238	0
B103	BRA	Bovine brucellosis (B. abortus)	1	0	3	0	0	3
B109	HS	Haemorrhagic septicaemia	2	0	126	6	32088	120
B111	THL	Theileriosis	7	0	65	9	0	56
B113	TRYP	Trypanosomiasis (tsetse borne)	20	0	114	4	0	110
B154	CAG	Contagious agalactia	0	0	25	0	0	25
B306	FCH	Fowl cholera	3	0	295	0	0	295
B307	FPX	Fowl pox	21	3500	430	15	0	415
B308	FTY	Fowl typhoid (S. gallinarum)	12	3000	2720	67	0	2653
B309	IBD	Infectious bursal disease (Gumboro disease)	31	5589	4423	395	3350	4028
B310	MRK	Marek's disease	1	0	1671	0	0	1671
B313	PUL	Pullorum disease (S. pullorum)	6	1000	5068	178	0	4890
C614	BQR	Blackquarter	3	1000	138	17	19043	121
C618	AMY	Actinomycosis / Lumpy jaw	3	0	5	0	0	5
C620	COC	Coccidiosis	346	150	8902	351	0	8551
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	54702	11	0	54691
C654	WRB	Warble infestation	0	0	960	17	0	943
C701	ORF	Contagious pustular dermatitis	0	0	4	0	0	4
C704	ETX	Enterotoxaemia	28	0	254	7	0	247
	ABR	Abortion	0	0	1976	12	0	1964
	CGH	Cough	0	0	2688	0	0	2688
	DRA	Diarrhoea	0	221	21907	284	0	21623
	DYS	Dystocia	0	0	983	2	0	981
	EBH	Enzootic bovine haematuria	17	0	44	0	0	44
	EPH	Ephemeral fever	47	0	2415	10	0	2405
	EXP	External parasites	0	315	15020	289	0	14731

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	FRA	Fracture	0	0	22	0	0	22
	HEI	Hydatidosis / Echinococcus Infestation	3	0	25	0	0	25
	INF	Infertility	0	0	9617	0	0	9617
	INH	Intestinal helminthiasis	0	0	9199	12	0	9187
	MAS	Mastitis	0	0	3572	0	0	3572
	MKF	Milk fever	0	0	1550	9	0	1541
	MNG	Mange	0	0	11653	3	0	11650
	MTR	Metritis	0	0	51	0	0	51
	MTS	Mycotoxiosis	7	0	68	23	0	45
	NVS	Nervous sign	5	0	2409	30	0	2379
	PGE	Parasitic gastroenteritis	0	0	29622	9	0	29613
	PNU	Pneumonia	0	0	331	0	0	331
	PRM	Paramphistomosis	0	0	20739	15	0	20724
	PSN	Poisoning	0	0	101	2	0	99
	RDW	Roundworm	0	0	5201	0	0	5201
	RES	Respiratory disease - unclassified	145	0	12766	361	0	12405
	RSS	Respiratory sign	0	0	1373	8	0	1365
	RUE	Red urine	0	0	1309	2	0	1307
	RWM	Ringworm	0	0	10	0	0	10
	SDN	Sudden death	14	0	32	32	0	0
	SKL	Skin lesions	0	0	5084	0	0	5084
	STM	Stomatitis	0	0	3	0	0	3
	TMP	Tympany	0	0	3358	6	0	3352
	WND	Wound	0	0	5065	0	0	5065

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Eastern

Ecozone: Mountain

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	0	0	0	0	1090	0
A050	PPR	Peste des petits ruminants	0	0	0	0	30000	0
A160	ND	Newcastle disease / Ranikhet	2	0	87	0	20000	87
B058	RAB	Rabies	0	0	0	0	501	0
B109	HS	Haemorrhagic septicaemia	0	0	0	0	1035	0
B306	FCH	Fowl cholera	1	0	115	0	0	115
B307	FPX	Fowl pox	5	0	135	0	0	135
B308	FTY	Fowl typhoid (S. gallinarum)	1	0	2654	47	0	2607
B309	IBD	Infectious bursal disease (Gumboro disease)	2	0	495	5	0	490
B313	PUL	Pullorum disease (S. pullorum)	1	0	52	0	0	52
C614	BQR	Blackquarter	0	0	0	0	1035	0
C620	COC	Coccidiosis	47	0	1566	23	0	1543
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	2969	0	0	2969
C701	ORF	Contagious pustular dermatitis	0	0	4	0	0	4
	ABR	Abortion	0	0	314	0	0	314
	CGH	Cough	0	0	435	0	0	435
	DRA	Diarrhoea	0	221	3378	215	0	3163
	DYS	Dystocia	0	0	60	0	0	60
	EPH	Ephemeral fever	4	0	63	0	0	63
	EXP	External parasites	0	315	8347	289	0	8058
	INF	Infertility	0	0	550	0	0	550
	INH	Intestinal helminthiasis	0	0	653	0	0	653
	MAS	Mastitis	0	0	186	0	0	186
	MKF	Milk fever	0	0	233	0	0	233
	MNG	Mange	0	0	721	0	0	721
	NVS	Nervous sign	3	0	100	0	0	100
	PGE	Parasitic gastroenteritis	0	0	5954	0	0	5954
	PRM	Paramphistomosis	0	0	917	0	0	917
	PSN	Poisoning	0	0	14	2	0	12
	RDW	Roundworm	0	0	45	0	0	45
	RES	Respiratory disease - unclassified	19	0	1958	62	0	1896
	RSS	Respiratory sign	0	0	119	0	0	119

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RUE	Red urine	0	0	192	0	0	192
	SDN	Sudden death	1	0	1	1	0	0
	SKL	Skin lesions	0	0	309	0	0	309
	TMP	Tympany	0	0	214	0	0	214
	WND	Wound	0	0	301	0	0	301

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Eastern
Year: 2016

Ecozone: Hill
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	2	0	5	0	5000	5
A050	PPR	Peste des petits ruminants	2	0	40	13	161113	27
A100	SGP	Sheep and goat pox	6	0	180	0	0	180
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	500	0
A160	ND	Newcastle disease / Ranikhet	0	0	0	0	32000	0
B058	RAB	Rabies	1	0	1	1	766	0
B109	HS	Haemorrhagic septicaemia	0	0	0	0	31053	0
B154	CAG	Contagious agalactia	0	0	25	0	0	25
B306	FCH	Fowl cholera	2	0	180	0	0	180
B307	FPX	Fowl pox	8	3500	285	15	0	270
B309	IBD	Infectious bursal disease (Gumboro disease)	1	1000	80	60	0	20
B310	MRK	Marek's disease	1	0	1671	0	0	1671
B313	PUL	Pullorum disease (S. pullorum)	4	0	4966	168	0	4798
C614	BQR	Blackquarter	0	0	0	0	17918	0
C620	COC	Coccidiosis	240	0	5346	204	0	5142
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	27324	5	0	27319
C704	ETX	Enterotoxaemia	23	0	246	3	0	243
	ABR	Abortion	0	0	1063	0	0	1063
	CGH	Cough	0	0	2253	0	0	2253
	DRA	Diarrhoea	0	0	12166	22	0	12144
	DYS	Dystocia	0	0	276	0	0	276
	EBH	Enzootic bovine haematuria	17	0	44	0	0	44
	EPH	Ephemeral fever	39	0	1504	5	0	1499
	EXP	External parasites	0	0	5715	0	0	5715
	FRA	Fracture	0	0	22	0	0	22
	INF	Infertility	0	0	3140	0	0	3140
	INH	Intestinal helminthiasis	0	0	7997	0	0	7997
	MAS	Mastitis	0	0	1487	0	0	1487
	MKF	Milk fever	0	0	196	0	0	196
	MNG	Mange	0	0	6624	0	0	6624
	NVS	Nervous sign	2	0	1161	0	0	1161

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	PGE	Parasitic gastroenteritis	0	0	14374	0	0	14374
	PNU	Pneumonia	0	0	253	0	0	253
	PRM	Paramphistomosis	0	0	8353	0	0	8353
	PSN	Poisoning	0	0	81	0	0	81
	RDW	Roundworm	0	0	250	0	0	250
	RES	Respiratory disease - unclassified	93	0	9120	187	0	8933
	RSS	Respiratory sign	0	0	776	0	0	776
	RUE	Red urine	0	0	674	0	0	674
	SKL	Skin lesions	0	0	3913	0	0	3913
	TMP	Tympany	0	0	996	0	0	996
	WND	Wound	0	0	1405	0	0	1405

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Eastern

Ecozone: Tarai

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	8	7400	1013	5	41927	1008
A050	PPR	Peste des petits ruminants	5	2000	4522	75	64460	4447
A100	SGP	Sheep and goat pox	2	0	193	10	0	183
A160	ND	Newcastle disease / Ranikhet	12	0	1325	85	8950	1240
B058	RAB	Rabies	15	0	42	42	971	0
B103	BRA	Bovine brucellosis (B. abortus)	1	0	3	0	0	3
B109	HS	Haemorrhagic septicaemia	2	0	126	6	0	120
B111	THL	Theileriosis	7	0	65	9	0	56
B113	TRYP	Trypanosomiasis (tsetse borne)	20	0	114	4	0	110
B307	FPX	Fowl pox	8	0	10	0	0	10
B308	FTY	Fowl typhoid (S. gallinarum)	11	3000	66	20	0	46
B309	IBD	Infectious bursal disease (Gumboro disease)	28	4589	3848	330	3350	3518
B313	PUL	Pullorum disease (S. pullorum)	1	1000	50	10	0	40
C614	BQR	Blackquarter	3	1000	138	17	90	121
C618	AMY	Actinomycosis / Lumpy jaw	3	0	5	0	0	5
C620	COC	Coccidiosis	59	150	1990	124	0	1866
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	24409	6	0	24403
C654	WRB	Warble infestation	0	0	960	17	0	943
C704	ETX	Enterotoxaemia	5	0	8	4	0	4
	ABR	Abortion	0	0	599	12	0	587
	DRA	Diarrhoea	0	0	6363	47	0	6316
	DYS	Dystocia	0	0	647	2	0	645
	EPH	Ephemeral fever	4	0	848	5	0	843
	EXP	External parasites	0	0	958	0	0	958
	HEI	Hydatidosis / Echinococcus Infestation	3	0	25	0	0	25
	INF	Infertility	0	0	5927	0	0	5927
	INH	Intestinal helminthiasis	0	0	549	12	0	537
	MAS	Mastitis	0	0	1899	0	0	1899
	MKF	Milk fever	0	0	1121	9	0	1112
	MNG	Mange	0	0	4308	3	0	4305
	MTR	Metritis	0	0	51	0	0	51
	MTS	Mycotoxiosis	7	0	68	23	0	45
	NVS	Nervous sign	0	0	1148	30	0	1118

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	PGE	Parasitic gastroenteritis	0	0	9294	9	0	9285
	PNU	Pneumonia	0	0	78	0	0	78
	PRM	Paramphistomosis	0	0	11469	15	0	11454
	PSN	Poisoning	0	0	6	0	0	6
	RDW	Roundworm	0	0	4906	0	0	4906
	RES	Respiratory disease - unclassified	33	0	1688	112	0	1576
	RSS	Respiratory sign	0	0	478	8	0	470
	RUE	Red urine	0	0	443	2	0	441
	RWM	Ringworm	0	0	10	0	0	10
	SDN	Sudden death	13	0	31	31	0	0
	SKL	Skin lesions	0	0	862	0	0	862
	STM	Stomatitis	0	0	3	0	0	3
	TMP	Tympany	0	0	2148	6	0	2142
	WND	Wound	0	0	3359	0	0	3359

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Central

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	46	4157	1269	102	125082	1167
A050	PPR	Peste des petits ruminants	10	662	3246	601	245065	2645
A100	SGP	Sheep and goat pox	3	300	179	0	0	179
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	19090	0
A160	ND	Newcastle disease / Ranikhet	35	1340	14888	120	37575	14768
B058	RAB	Rabies	13	100	25	25	3633	0
B102	BAB	Babesiosis	1	0	4	0	0	4
B103	BRA	Bovine brucellosis (B. abortus)	4	0	14	0	0	14
B106	BCY	Bovine cysticercosis (C. bovis)	0	0	2	0	0	2
B109	HS	Haemorrhagic septicaemia	8	0	410	26	69197	384
B111	THL	Theileriosis	49	310	291	0	0	291
B154	CAG	Contagious agalactia	0	0	1	0	0	1
B301	AIB	Avian infectious bronchitis	5	0	115	1	0	114
B307	FPX	Fowl pox	10	2890	458	10	0	448
B308	FTY	Fowl typhoid (S. gallinarum)	0	0	0	0	2352	0
B309	IBD	Infectious bursal disease (Gumboro disease)	53	780	41661	670	27946	40991
B310	MRK	Marek's disease	1	0	680	0	0	680
B313	PUL	Pullorum disease (S. pullorum)	17	3100	1785	205	0	1580
C614	BQR	Blackquarter	14	0	1619	7	85226	1612
C618	AMY	Actinomycosis / Lumpy jaw	1	0	3	0	0	3
C620	COC	Coccidiosis	313	5579	15076	553	0	14523
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	60660	0	0	60660
C654	WRB	Warble infestation	0	0	827	0	0	827
C704	ETX	Enterotoxaemia	80	1065	447	7	0	440
C851	ICR	Infectious coryza	0	0	2125	35	0	2090
	ABR	Abortion	0	0	4386	2	0	4384
	CGH	Cough	0	0	8378	0	0	8378
	COB	Colibacillosis	81	0	59150	1002	0	58148
	CSC	Calf-scour	0	0	150	0	0	150
	DRA	Diarrhoea	0	0	59111	281	0	58830
	DYS	Dystocia	0	0	3005	3	0	3002

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	EPH	Ephemeral fever	79	1126	2403	0	0	2403
	EXP	External parasites	0	0	10452	0	0	10452
	FRA	Fracture	0	0	12	0	0	12
	HEI	Hydatidosis / Echinococcus Infestation	25	1100	353	2	0	351
	INF	Infertility	0	0	9530	0	0	9530
	INH	Intestinal helminthiasis	0	350	658	2	0	656
	MAS	Mastitis	0	0	7275	0	0	7275
	MKF	Milk fever	0	0	444	0	0	444
	MNG	Mange	0	0	8249	0	0	8249
	MTR	Metritis	0	0	44	0	0	44
	MTS	Mycotoxycosis	1	0	500	3	0	497
	NVS	Nervous sign	1	0	1464	15	0	1449
	PGE	Parasitic gastroenteritis	0	0	18363	2	0	18361
	PNU	Pneumonia	0	0	593	0	0	593
	PRM	Paramphistomosis	0	0	24236	0	0	24236
	PSN	Poisoning	0	0	14682	126	0	14556
	RDW	Roundworm	0	0	5737	30	0	5707
	RES	Respiratory disease - unclassified	121	1526	83297	1388	0	81909
	RSS	Respiratory sign	3	140	4605	4	0	4601
	RUE	Red urine	0	0	1432	1	0	1431
	SDN	Sudden death	22	0	116	116	0	0
	SKL	Skin lesions	0	80	6164	0	0	6164
	STM	Stomatitis	0	0	757	1	0	756
	TMP	Tympany	0	0	6182	5	0	6177
	TPW	Tapeworm	0	0	50	0	0	50
	WND	Wound	0	0	8974	0	0	8974

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Central
Year: 2016

Ecozone: Mountain
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	12	3470	86	4	10621	82
A050	PPR	Peste des petits ruminants	2	600	80	55	10100	25
A100	SGP	Sheep and goat pox	2	300	29	0	0	29
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	500	0
A160	ND	Newcastle disease / Ranikhet	26	1340	8510	100	5300	8410
B058	RAB	Rabies	5	100	10	10	316	0
B102	BAB	Babesiosis	1	0	4	0	0	4
B109	HS	Haemorrhagic septicaemia	0	0	0	0	6023	0
B111	THL	Theileriosis	10	310	25	0	0	25
B307	FPX	Fowl pox	7	1190	210	0	0	210
B309	IBD	Infectious bursal disease (Gumboro disease)	15	780	371	20	700	351
B313	PUL	Pullorum disease (S. pullorum)	16	3100	1635	200	0	1435
C614	BQR	Blackquarter	0	0	0	0	4523	0
C620	COC	Coccidiosis	35	4686	3860	67	0	3793
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	8886	0	0	8886
C704	ETX	Enterotoxaemia	14	1065	37	6	0	31
	ABR	Abortion	0	0	167	0	0	167
	CGH	Cough	0	0	2646	0	0	2646
	DRA	Diarrhoea	0	0	5372	11	0	5361
	DYS	Dystocia	0	0	195	0	0	195
	EPH	Ephemeral fever	13	1120	180	0	0	180
	EXP	External parasites	0	0	7529	0	0	7529
	FRA	Fracture	0	0	7	0	0	7
	HEI	Hydatidosis / Echinococcus Infestation	13	1100	274	0	0	274
	INF	Infertility	0	0	1157	0	0	1157
	INH	Intestinal helminthiasis	0	350	561	0	0	561
	MAS	Mastitis	0	0	325	0	0	325
	MKF	Milk fever	0	0	37	0	0	37
	MNG	Mange	0	0	884	0	0	884
	MTS	Mycotoxycosis	1	0	500	3	0	497
	NVS	Nervous sign	1	0	3	0	0	3

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	PGE	Parasitic gastroenteritis	0	0	938	0	0	938
	PRM	Paramphistomosis	0	0	2273	0	0	2273
	PSN	Poisoning	0	0	67	1	0	66
	RES	Respiratory disease - unclassified	10	1526	2538	419	0	2119
	RSS	Respiratory sign	3	140	262	0	0	262
	RUE	Red urine	0	0	93	0	0	93
	SDN	Sudden death	13	0	90	90	0	0
	SKL	Skin lesions	0	80	87	0	0	87
	STM	Stomatitis	0	0	120	0	0	120
	TMP	Tympany	0	0	299	0	0	299
	WND	Wound	0	0	407	0	0	407

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Central
Year: 2016

Ecozone: Hill
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	29	262	1145	98	114161	1047
A050	PPR	Peste des petits ruminants	0	0	0	0	222165	0
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	18590	0
A160	ND	Newcastle disease / Ranikhet	2	0	1033	20	29575	1013
B058	RAB	Rabies	5	0	10	10	2379	0
B103	BRA	Bovine brucellosis (B. abortus)	4	0	14	0	0	14
B106	BCY	Bovine cysticercosis (C. bovis)	0	0	2	0	0	2
B109	HS	Haemorrhagic septicaemia	5	0	375	15	32753	360
B111	THL	Theileriosis	1	0	2	0	0	2
B154	CAG	Contagious agalactia	0	0	1	0	0	1
B301	AIB	Avian infectious bronchitis	5	0	115	1	0	114
B307	FPX	Fowl pox	3	1700	248	10	0	238
B308	FTY	Fowl typhoid (S. gallinarum)	0	0	0	0	2352	0
B309	IBD	Infectious bursal disease (Gumboro disease)	38	0	41290	650	27246	40640
B313	PUL	Pullorum disease (S. pullorum)	1	0	150	5	0	145
C614	BQR	Blackquarter	0	0	0	0	30687	0
C618	AMY	Actinomycosis / Lumpy jaw	1	0	3	0	0	3
C620	COC	Coccidiosis	58	893	8612	486	0	8126
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	37552	0	0	37552
C654	WRB	Warble infestation	0	0	21	0	0	21
C704	ETX	Enterotoxaemia	3	0	20	1	0	19
C851	ICR	Infectious coryza	0	0	2125	35	0	2090
	ABR	Abortion	0	0	1373	2	0	1371
	CGH	Cough	0	0	4513	0	0	4513
	COB	Colibacillosis	81	0	59150	1002	0	58148
	DRA	Diarrhoea	0	0	33473	207	0	33266
	DYS	Dystocia	0	0	910	3	0	907
	EPH	Ephemeral fever	0	6	226	0	0	226
	EXP	External parasites	0	0	437	0	0	437
	FRA	Fracture	0	0	5	0	0	5
	HEI	Hydatidosis / Echinococcus Infestation	7	0	74	0	0	74

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	INF	Infertility	0	0	4096	0	0	4096
	INH	Intestinal helminthiasis	0	0	97	2	0	95
	MAS	Mastitis	0	0	2699	0	0	2699
	MKF	Milk fever	0	0	407	0	0	407
	MNG	Mange	0	0	3016	0	0	3016
	NVS	Nervous sign	0	0	633	0	0	633
	PGE	Parasitic gastroenteritis	0	0	8327	2	0	8325
	PNU	Pneumonia	0	0	593	0	0	593
	PRM	Paramphistomosis	0	0	11522	0	0	11522
	PSN	Poisoning	0	0	14473	125	0	14348
	RDW	Roundworm	0	0	3954	30	0	3924
	RES	Respiratory disease - unclassified	23	0	73766	969	0	72797
	RSS	Respiratory sign	0	0	3192	4	0	3188
	RUE	Red urine	0	0	133	1	0	132
	SDN	Sudden death	8	0	24	24	0	0
	SKL	Skin lesions	0	0	3107	0	0	3107
	STM	Stomatitis	0	0	637	1	0	636
	TMP	Tympany	0	0	2084	5	0	2079
	WND	Wound	0	0	1704	0	0	1704

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Central

Ecozone: Tarai

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	5	425	38	0	300	38
A050	PPR	Peste des petits ruminants	8	62	3166	546	12800	2620
A100	SGP	Sheep and goat pox	1	0	150	0	0	150
A160	ND	Newcastle disease / Ranikhet	7	0	5345	0	2700	5345
B058	RAB	Rabies	3	0	5	5	938	0
B109	HS	Haemorrhagic septicaemia	3	0	35	11	30421	24
B111	THL	Theileriosis	38	0	264	0	0	264
B310	MRK	Marek's disease	1	0	680	0	0	680
C614	BQR	Blackquarter	14	0	1619	7	50016	1612
C620	COC	Coccidiosis	220	0	2604	0	0	2604
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	14222	0	0	14222
C654	WRB	Warble infestation	0	0	806	0	0	806
C704	ETX	Enterotoxaemia	63	0	390	0	0	390
	ABR	Abortion	0	0	2846	0	0	2846
	CGH	Cough	0	0	1219	0	0	1219
	CSC	Calf-scour	0	0	150	0	0	150
	DRA	Diarrhoea	0	0	20266	63	0	20203
	DYS	Dystocia	0	0	1900	0	0	1900
	EPH	Ephemeral fever	66	0	1997	0	0	1997
	EXP	External parasites	0	0	2486	0	0	2486
	HEI	Hydatidosis / Echinococcus Infestation	5	0	5	2	0	3
	INF	Infertility	0	0	4277	0	0	4277
	MAS	Mastitis	0	0	4251	0	0	4251
	MNG	Mange	0	0	4349	0	0	4349
	MTR	Metritis	0	0	44	0	0	44
	NVS	Nervous sign	0	0	828	15	0	813
	PGE	Parasitic gastroenteritis	0	0	9098	0	0	9098
	PRM	Paramphistomosis	0	0	10441	0	0	10441
	PSN	Poisoning	0	0	142	0	0	142

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RDW	Roundworm	0	0	1783	0	0	1783
	RES	Respiratory disease - unclassified	88	0	6993	0	0	6993
	RSS	Respiratory sign	0	0	1151	0	0	1151
	RUE	Red urine	0	0	1206	0	0	1206
	SDN	Sudden death	1	0	2	2	0	0
	SKL	Skin lesions	0	0	2970	0	0	2970
	TMP	Tympany	0	0	3799	0	0	3799
	TPW	Tapeworm	0	0	50	0	0	50
	WND	Wound	0	0	6863	0	0	6863

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region:Western

Year: 2016

Period:Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	31	26766	1490	33	123072	1457
A050	PPR	Peste des petits ruminants	3	0	902	286	293216	616
A100	SGP	Sheep and goat pox	3	0	11	0	0	11
A130	CSF	Classical swine fever (Hog cholera)	2	15	21	3	300	18
A160	ND	Newcastle disease / Ranikhet	85	100000	26969	4611	69600	22358
B051	ANT	Anthrax	2	260	9	9	558	0
B058	RAB	Rabies	2	0	4	4	3995	0
B109	HS	Haemorrhagic septicaemia	1	43	7	3	31068	4
B301	AIB	Avian infectious bronchitis	59	88000	7524	1339	29600	6185
B306	FCH	Fowl cholera	14	60000	10140	1146	0	8994
B307	FPX	Fowl pox	91	5430	3642	325	7500	3317
B308	FTY	Fowl typhoid (S. gallinarum)	11	0	10895	972	0	9923
B309	IBD	Infectious bursal disease (Gumboro disease)	82	87500	73035	6374	82493	66661
B310	MRK	Marek's disease	1	0	13	0	0	13
B313	PUL	Pullorum disease (S. pullorum)	8	100	5925	943	0	4982
C614	BQR	Blackquarter	2	50	11	2	7200	9
C620	COC	Coccidiosis	138	71916	28177	2173	0	26004
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	64508	40	0	64466
C654	WRB	Warble infestation	0	0	246	0	0	246
C704	ETX	Enterotoxaemia	7	121	46	4	0	42
	ABR	Abortion	0	0	3687	19	0	3668
	CGH	Cough	0	0	2839	0	0	2839
	COB	Colibacillosis	8	7500	16216	1932	0	14284
	DRA	Diarrhoea	0	0	74977	2204	0	72773
	DYS	Dystocia	0	0	675	0	0	675
	EPH	Ephemeral fever	0	0	1001	0	0	1001
	EXP	External parasites	0	0	47687	283	0	47404
	FLN	Foot lesion	0	0	6	0	0	6
	FRA	Fracture	0	0	55	0	0	55
	GIN	Gastro-intestinal nematodes	0	0	185	0	0	185
	HEI	Hydatidosis / Echinococcus Infestation	1	0	2	0	0	2

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	INF	Infertility	0	0	10615	0	0	10615
	INH	Intestinal helminthiasis	0	0	17400	704	0	16696
	MAS	Mastitis	0	0	3788	4	0	3784
	MKF	Milk fever	0	0	1603	0	0	1603
	MNG	Mange	0	0	14901	0	0	14901
	MTS	Mycotoxycosis	20	0	19909	1234	0	18675
	NVS	Nervous sign	13	0	5127	583	0	4544
	PGE	Parasitic gastroenteritis	0	0	40071	396	0	39675
	PNU	Pneumonia	0	0	2372	3	0	2369
	PRM	Paramphistomosis	0	0	24541	0	0	24541
	PSN	Poisoning	0	0	5687	192	0	5495
	RDW	Roundworm	0	0	609	0	0	609
	RES	Respiratory disease - unclassified	131	8826	116997	5457	0	111540
	RSS	Respiratory sign	0	0	2642	25	0	2617
	RUE	Red urine	0	0	406	12	0	394
	RWM	Ringworm	0	0	69	0	0	69
	SDN	Sudden death	60	21	805	805	0	0
	SKL	Skin lesions	0	0	3757	0	0	3757
	TMP	Tympany	0	0	3708	7	0	3701
	WND	Wound	0	0	1627	0	0	1627

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Western

Ecozone: Mountain

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A160	ND	Newcastle disease / Ranikhet	1	0	22	0	0	22
C620	COC	Coccidiosis	1	0	54	0	0	54
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	2077	0	0	2077
	ABR	Abortion	0	0	23	0	0	23
	CGH	Cough	0	0	1725	0	0	1725
	DRA	Diarrhoea	0	0	3863	0	0	3863
	DYS	Dystocia	0	0	4	0	0	4
	EPH	Ephemeral fever	0	0	247	0	0	247
	EXP	External parasites	0	0	7983	0	0	7983
	FRA	Fracture	0	0	33	0	0	33
	INF	Infertility	0	0	99	0	0	99
	MAS	Mastitis	0	0	6	0	0	6
	MKF	Milk fever	0	0	86	0	0	86
	MNG	Mange	0	0	1658	0	0	1658
	PGE	Parasitic gastroenteritis	0	0	4697	0	0	4697
	PNU	Pneumonia	0	0	2097	0	0	2097
	PRM	Paramphistomosis	0	0	757	0	0	757
	PSN	Poisoning	0	0	50	0	0	50
	RES	Respiratory disease - unclassified	8	0	106	0	0	106
	RUE	Red urine	0	0	54	0	0	54
	SDN	Sudden death	9	0	107	107	0	0
	TMP	Tympany	0	0	332	0	0	332
	WND	Wound	0	0	692	0	0	692

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Western
Year: 2016

Ecozone: Hill
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	28	3644	1140	16	7050	1124
A050	PPR	Peste des petits ruminants	3	0	902	286	160920	616
A100	SGP	Sheep and goat pox	3	0	11	0	0	11
A130	CSF	Classical swine fever (Hog cholera)	2	15	21	3	300	18
A160	ND	Newcastle disease / Ranikhet	8	0	8966	417	13100	8549
B051	ANT	Anthrax	2	260	9	9	558	0
B058	RAB	Rabies	2	0	4	4	2411	0
B109	HS	Haemorrhagic septicaemia	0	0	0	0	15068	0
B301	AIB	Avian infectious bronchitis	4	0	525	36	0	489
B307	FPX	Fowl pox	86	310	3327	105	0	3222
B308	FTY	Fowl typhoid (S. gallinarum)	2	0	2954	61	0	2893
B309	IBD	Infectious bursal disease (Gumboro disease)	29	7500	42320	1192	10768	41128
B310	MRK	Marek's disease	1	0	13	0	0	13
B313	PUL	Pullorum disease (S. pullorum)	4	100	510	12	0	498
C614	BQR	Blackquarter	2	50	11	2	7200	9
C620	COC	Coccidiosis	90	4385	12418	943	0	11475
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	47390	40	0	47348
C654	WRB	Warble infestation	0	0	246	0	0	246
C704	ETX	Enterotoxaemia	6	45	34	1	0	33
	ABR	Abortion	0	0	1130	0	0	1130
	CGH	Cough	0	0	1114	0	0	1114
	DRA	Diarrhoea	0	0	35444	488	0	34956
	DYS	Dystocia	0	0	411	0	0	411
	EPH	Ephemeral fever	0	0	376	0	0	376
	EXP	External parasites	0	0	24803	0	0	24803
	FLN	Foot lesion	0	0	6	0	0	6
	FRA	Fracture	0	0	22	0	0	22
	GIN	Gastro-intestinal nematodes	0	0	185	0	0	185
	HEI	Hydatidosis / Echinococcus Infestation	1	0	2	0	0	2
	INF	Infertility	0	0	5718	0	0	5718
	INH	Intestinal helminthiasis	0	0	6792	404	0	6388

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	MAS	Mastitis	0	0	1937	0	0	1937
	MKF	Milk fever	0	0	691	0	0	691
	MNG	Mange	0	0	11255	0	0	11255
	MTS	Mycotoxycosis	2	0	640	0	0	640
	NVS	Nervous sign	1	0	407	4	0	403
	PGE	Parasitic gastroenteritis	0	0	29946	38	0	29908
	PNU	Pneumonia	0	0	275	3	0	272
	PRM	Paramphistomosis	0	0	16057	0	0	16057
	PSN	Poisoning	0	0	5637	192	0	5445
	RDW	Roundworm	0	0	609	0	0	609
	RES	Respiratory disease - unclassified	77	1276	69479	2391	0	67088
	RSS	Respiratory sign	0	0	2119	25	0	2094
	RUE	Red urine	0	0	337	12	0	325
	RWM	Ringworm	0	0	69	0	0	69
	SDN	Sudden death	39	21	226	226	0	0
	SKL	Skin lesions	0	0	2934	0	0	2934
	TMP	Tympany	0	0	2567	7	0	2560
	WND	Wound	0	0	935	0	0	935

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Western
Year: 2016

Ecozone: Tarai
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	3	23122	350	17	116022	333
A050	PPR	Peste des petits ruminants	0	0	0	0	132296	0
A160	ND	Newcastle disease / Ranikhet	76	100000	17981	4194	56500	13787
B058	RAB	Rabies	0	0	0	0	1584	0
B109	HS	Haemorrhagic septicaemia	1	43	7	3	16000	4
B301	AIB	Avian infectious bronchitis	55	88000	6999	1303	29600	5696
B306	FCH	Fowl cholera	14	60000	10140	1146	0	8994
B307	FPX	Fowl pox	5	5120	315	220	7500	95
B308	FTY	Fowl typhoid (S. gallinarum)	9	0	7941	911	0	7030
B309	IBD	Infectious bursal disease (Gumboro disease)	53	80000	30715	5182	71725	25533
B313	PUL	Pullorum disease (S. pullorum)	4	0	5415	931	0	4484
C620	COC	Coccidiosis	47	67531	15705	1230	0	14475
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	15041	0	0	15041
C704	ETX	Enterotoxaemia	1	76	12	3	0	9
	ABR	Abortion	0	0	2534	19	0	2515
	COB	Colibacillosis	8	7500	16216	1932	0	14284
	DRA	Diarrhoea	0	0	35670	1716	0	33954
	DYS	Dystocia	0	0	260	0	0	260
	EPH	Ephemeral fever	0	0	378	0	0	378
	EXP	External parasites	0	0	14901	283	0	14618
	INF	Infertility	0	0	4798	0	0	4798
	INH	Intestinal helminthiasis	0	0	10608	300	0	10308
	MAS	Mastitis	0	0	1845	4	0	1841
	MKF	Milk fever	0	0	826	0	0	826
	MNG	Mange	0	0	1988	0	0	1988
	MTS	Mycotoxocosis	18	0	19269	1234	0	18035
	NVS	Nervous sign	12	0	4720	579	0	4141
	PGE	Parasitic gastroenteritis	0	0	5428	358	0	5070
	PRM	Paramphistomosis	0	0	7727	0	0	7727
	RES	Respiratory disease - unclassified	46	7550	47412	3066	0	44346
	RSS	Respiratory sign	0	0	523	0	0	523

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RUE	Red urine	0	0	15	0	0	15
	SDN	Sudden death	12	0	472	472	0	0
	SKL	Skin lesions	0	0	823	0	0	823
	TMP	Tympany	0	0	809	0	0	809

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Mid-Western

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	25	10070	1685	97	13207	1588
A050	PPR	Peste des petits ruminants	12	12250	1690	160	296213	1530
A100	SGP	Sheep and goat pox	4	0	74	0	0	74
A130	CSF	Classical swine fever (Hog cholera)	1	1000	24	24	5546	0
A160	ND	Newcastle disease / Ranikhet	24	0	11466	386	74494	11080
B058	RAB	Rabies	0	0	0	0	2940	0
B109	HS	Haemorrhagic septicaemia	6	11	17	4	76701	13
B306	FCH	Fowl cholera	23	0	176	8	0	168
B307	FPX	Fowl pox	33	200	720	110	0	610
B309	IBD	Infectious bursal disease (Gumboro disease)	61	2780	5353	317	40960	5036
B313	PUL	Pullorum disease (S. pullorum)	47	6060	135	100	0	35
C614	BQR	Blackquarter	5	0	14	4	57588	10
C620	COC	Coccidiosis	338	2516	36249	721	0	35528
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	93425	84	0	93341
C654	WRB	Warble infestation	0	0	54	0	0	54
C704	ETX	Enterotoxaemia	30	0	73	2	0	71
	ABR	Abortion	0	0	2498	0	0	2498
	CGH	Cough	0	0	688	0	0	688
	COB	Colibacillosis	66	5000	1836	249	0	1587
	DRA	Diarrhoea	0	0	44985	1242	0	43743
	DYS	Dystocia	0	0	1216	6	0	1210
	EBH	Enzootic bovine haematuria	2	0	9	1	0	8
	EPH	Ephemeral fever	0	0	22	0	0	22
	EXP	External parasites	0	0	61831	74	0	61757
	FRA	Fracture	0	0	252	0	0	252
	GIN	Gastro-intestinal nematodes	0	0	1484	0	0	1484
	INF	Infertility	0	0	6374	0	0	6374
	INH	Intestinal helminthiasis	0	0	18158	24	0	18134
	MAS	Mastitis	0	0	2723	0	0	2723
	MKF	Milk fever	0	0	373	0	0	373
	MNG	Mange	0	0	36106	19	0	36087

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	MTR	Metritis	0	0	321	0	0	321
	MTS	Mycotoxycosis	28	0	17574	273	0	17301
	NVS	Nervous sign	66	0	4557	99	0	4458
	PGE	Parasitic gastroenteritis	0	0	19908	28	0	19880
	PNU	Pneumonia	0	0	105	2	0	103
	PRM	Paramphistomosis	0	0	35811	0	0	35811
	PSN	Poisoning	0	0	1584	47	0	1537
	RDW	Roundworm	0	0	711	0	0	711
	RES	Respiratory disease - unclassified	73	12700	14605	1243	0	13362
	RSS	Respiratory sign	52	500	9179	363	0	8816
	RUE	Red urine	0	0	937	7	0	930
	SDN	Sudden death	1	0	1	1	0	0
	SKL	Skin lesions	0	0	7483	0	0	7483
	TMP	Tympany	0	0	5804	28	0	5776
	TPW	Tapeworm	0	0	81	0	0	81
	WND	Wound	0	0	9961	9	0	9952

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Mid-western

Ecozone: Mountain

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	1	0	7	0	3611	7
A050	PPR	Peste des petits ruminants	6	0	389	49	23225	340
A160	ND	Newcastle disease / Ranikhet	0	0	0	0	1925	0
B058	RAB	Rabies	0	0	0	0	905	0
B109	HS	Haemorrhagic septicaemia	2	3	5	0	28488	5
B306	FCH	Fowl cholera	23	0	176	8	0	168
B307	FPX	Fowl pox	1	0	55	1	0	54
B309	IBD	Infectious bursal disease (Gumboro disease)	0	0	0	0	700	0
C614	BQR	Blackquarter	3	0	12	3	17941	9
C620	COC	Coccidiosis	106	2	1395	91	0	1304
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	38501	32	0	38469
C654	WRB	Warble infestation	0	0	22	0	0	22
C704	ETX	Enterotoxaemia	30	0	73	2	0	71
	ABR	Abortion	0	0	768	0	0	768
	CGH	Cough	0	0	149	0	0	149
	DRA	Diarrhoea	0	0	2216	55	0	2161
	DYS	Dystocia	0	0	233	0	0	233
	EBH	Enzootic bovine haematuria	2	0	9	1	0	8
	EPH	Ephemeral fever	0	0	9	0	0	9
	EXP	External parasites	0	0	8393	56	0	8337
	FRA	Fracture	0	0	203	0	0	203
	INF	Infertility	0	0	1454	0	0	1454
	INH	Intestinal helminthiasis	0	0	712	4	0	708
	MAS	Mastitis	0	0	450	0	0	450
	MNG	Mange	0	0	9411	19	0	9392
	NVS	Nervous sign	0	0	20	1	0	19
	PGE	Parasitic gastroenteritis	0	0	7227	18	0	7209
	PNU	Pneumonia	0	0	105	2	0	103
	PRM	Paramphistomosis	0	0	11110	0	0	11110
	PSN	Poisoning	0	0	1015	47	0	968
	RDW	Roundworm	0	0	711	0	0	711

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RES	Respiratory disease - unclassified	0	0	1609	30	0	1579
	RSS	Respiratory sign	0	0	525	6	0	519
	RUE	Red urine	0	0	363	4	0	359
	SDN	Sudden death	1	0	1	1	0	0
	SKL	Skin lesions	0	0	1129	0	0	1129
	TMP	Tympany	0	0	399	13	0	386
	WND	Wound	0	0	3415	9	0	3406

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Mid-Western

Ecozone: Hill

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	6	0	967	0	2180	967
A050	PPR	Peste des petits ruminants	2	0	536	78	39972	458
A100	SGP	Sheep and goat pox	4	0	74	0	0	74
A130	CSF	Classical swine fever (Hog cholera)	0	0	0	0	500	0
A160	ND	Newcastle disease / Ranikhet	2	0	92	28	48969	64
B058	RAB	Rabies	0	0	0	0	767	0
B109	HS	Haemorrhagic septicaemia	2	0	4	4	32506	0
B307	FPX	Fowl pox	26	0	625	90	0	535
B309	IBD	Infectious bursal disease (Gumboro disease)	18	180	1871	130	24760	1741
C614	BQR	Blackquarter	0	0	0	0	27540	0
C620	COC	Coccidiosis	197	64	33771	433	0	33338
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	39660	52	0	39608
C654	WRB	Warble infestation	0	0	32	0	0	32
	ABR	Abortion	0	0	1404	0	0	1404
	CGH	Cough	0	0	539	0	0	539
	DRA	Diarrhoea	0	0	33805	1034	0	32771
	DYS	Dystocia	0	0	866	6	0	860
	EXP	External parasites	0	0	50918	18	0	50900
	GIN	Gastro-intestinal nematodes	0	0	1484	0	0	1484
	INF	Infertility	0	0	3390	0	0	3390
	INH	Intestinal helminthiasis	0	0	17421	20	0	17401
	MAS	Mastitis	0	0	1414	0	0	1414
	MKF	Milk fever	0	0	254	0	0	254
	MNG	Mange	0	0	24184	0	0	24184
	MTS	Mycotoxicosis	0	0	12055	56	0	11999
	NVS	Nervous sign	66	0	3470	86	0	3384
	PGE	Parasitic gastroenteritis	0	0	7185	9	0	7176
	PRM	Paramphistomosis	0	0	15886	0	0	15886
	RES	Respiratory disease - unclassified	5	0	11767	629	0	11138

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RSS	Respiratory sign	42	0	7440	329	0	7111
	RUE	Red urine	0	0	572	3	0	569
	SKL	Skin lesions	0	0	4560	0	0	4560
	TMP	Tympany	0	0	3173	0	0	3173
	TPW	Tapeworm	0	0	81	0	0	81
	WND	Wound	0	0	2729	0	0	2729

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Mid-Western
Year: 2016

Ecozone: Tarai
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	18	10070	711	97	7416	614
A050	PPR	Peste des petits ruminants	4	12250	765	33	233016	732
A130	CSF	Classical swine fever (Hog cholera)	1	1000	24	24	5046	0
A160	ND	Newcastle disease / Ranikhet	22	0	11374	358	23600	11016
B058	RAB	Rabies	0	0	0	0	1268	0
B109	HS	Haemorrhagic septicaemia	2	8	8	0	15707	8
B307	FPX	Fowl pox	6	200	40	19	0	21
B309	IBD	Infectious bursal disease (Gumboro disease)	43	2600	3482	187	15500	3295
B313	PUL	Pullorum disease (S. pullorum)	47	6060	135	100	0	35
C614	BQR	Blackquarter	2	0	2	1	12107	1
C620	COC	Coccidiosis	35	2450	1083	197	0	886
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	15264	0	0	15264
	ABR	Abortion	0	0	326	0	0	326
	COB	Colibacillosis	66	5000	1836	249	0	1587
	DRA	Diarrhoea	0	0	8964	153	0	8811
	DYS	Dystocia	0	0	117	0	0	117
	EPH	Ephemeral fever	0	0	13	0	0	13
	EXP	External parasites	0	0	2520	0	0	2520
	FRA	Fracture	0	0	49	0	0	49
	INF	Infertility	0	0	1530	0	0	1530
	INH	Intestinal helminthiasis	0	0	25	0	0	25
	MAS	Mastitis	0	0	859	0	0	859
	MKF	Milk fever	0	0	119	0	0	119
	MNG	Mange	0	0	2511	0	0	2511
	MTR	Metritis	0	0	321	0	0	321
	MTS	Mycotoxycosis	28	0	5519	217	0	5302
	NVS	Nervous sign	0	0	1067	12	0	1055
	PGE	Parasitic gastroenteritis	0	0	5496	1	0	5495
	PRM	Paramphistomosis	0	0	8815	0	0	8815
	PSN	Poisoning	0	0	569	0	0	569
	RES	Respiratory disease - unclassified	68	12700	1229	584	0	645

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RSS	Respiratory sign	10	500	1214	28	0	1186
	RUE	Red urine	0	0	2	0	0	2
	SKL	Skin lesions	0	0	1794	0	0	1794
	TMP	Tympany	0	0	2232	15	0	2217
	WND	Wound	0	0	3817	0	0	3817

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Far-Western

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	5	0	79	0	47000	79
A050	PPR	Peste des petits ruminants	3	0	811	795	436861	16
A160	ND	Newcastle disease / Ranikhet	0	0	0	0	18600	0
B058	RAB	Rabies	1	0	1	1	953	0
B109	HS	Haemorrhagic septicaemia	6	0	185	5	33095	180
B306	FCH	Fowl cholera	3	0	8	0	0	8
B307	FPX	Fowl pox	19	0	486	14	60	472
B309	IBD	Infectious bursal disease (Gumboro disease)	3	0	875	0	0	875
C614	BQR	Blackquarter	0	0	0	0	23910	0
C620	COC	Coccidiosis	233	500	12094	225	0	11869
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	30663	32	0	30633
C654	WRB	Warble infestation	0	0	216	0	0	216
	ABR	Abortion	0	0	2382	0	0	2382
	CGH	Cough	0	0	1641	0	0	1641
	DRA	Diarrhoea	1	0	14116	51	0	14065
	DYS	Dystocia	0	0	235	12	0	223
	EPH	Ephemeral fever	0	0	168	1	0	167
	EXP	External parasites	0	0	22376	2	0	22374
	GIN	Gastro-intestinal nematodes	0	0	2135	0	0	2135
	HEI	Hydatidosis / Echinococcus Infestation	17	0	3173	0	0	3173
	HMC	Haemonchus	0	0	4	0	0	4
	INF	Infertility	0	0	4753	0	0	4753
	INH	Intestinal helminthiasis	0	0	15288	14	0	15274
	KHA	Khari disease	12	0	87	0	0	87
	MAS	Mastitis	0	0	2344	0	0	2344
	MKF	Milk fever	0	0	135	0	0	135
	MNG	Mange	0	0	6207	2	0	6205
	NVS	Nervous sign	7	0	883	0	0	883
	PGE	Parasitic gastroenteritis	0	0	5374	4	0	5370
	PNU	Pneumonia	0	0	201	15	0	186
	PRM	Paramphistomosis	0	0	10304	3	0	10301
	PSN	Poisoning	0	0	967	58	0	909
	RDW	Roundworm	0	0	12	0	0	12

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animals	
			outbreaks	Susceptible	affected	dead	vaccinated	treated
	RES	Respiratory disease - unclassified	5	0	3552	23	0	3529
	RSS	Respiratory sign	0	0	1666	0	0	1666
	RUE	Red urine	0	0	1110	22	0	1088
	SDN	Sudden death	25	0	116	116	0	0
	SKL	Skin lesions	0	0	3268	0	0	3268
	TMP	Tympany	0	0	3817	28	0	3789
	WND	Wound	0	0	4819	4	0	4815

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Sixmonthly Diseases Report First Sixmonth

Region: Far-Western
Year: 2016

Ecozone: Mountain
Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A050	PPR	Peste des petits ruminants	2	0	777	777	54500	0
A160	ND	Newcastle disease / Ranikhet	0	0	0	0	18600	0
B109	HS	Haemorrhagic septicaemia	2	0	39	5	2827	34
B306	FCH	Fowl cholera	3	0	8	0	0	8
B307	FPX	Fowl pox	7	0	42	0	0	42
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	8970	11	0	8961
C654	WRB	Warble infestation	0	0	216	0	0	216
	ABR	Abortion	0	0	399	0	0	399
	CGH	Cough	0	0	1353	0	0	1353
	DRA	Diarrhoea	0	0	2844	0	0	2844
	DYS	Dystocia	0	0	102	0	0	102
	EPH	Ephemeral fever	0	0	59	0	0	59
	EXP	External parasites	0	0	9793	0	0	9793
	GIN	Gastro-intestinal nematodes	0	0	1680	0	0	1680
	HEI	Hydatidosis / Echinococcus Infestation	17	0	173	0	0	173
	INF	Infertility	0	0	1532	0	0	1532
	INH	Intestinal helminthiasis	0	0	14792	0	0	14792
	MAS	Mastitis	0	0	490	0	0	490
	MNG	Mange	0	0	3748	0	0	3748
	NVS	Nervous sign	0	0	6	0	0	6
	PGE	Parasitic gastroenteritis	0	0	1085	0	0	1085
	PRM	Paramphistomosis	0	0	3746	0	0	3746
	PSN	Poisoning	0	0	269	0	0	269
	RDW	Roundworm	0	0	12	0	0	12
	RES	Respiratory disease - unclassified	0	0	500	0	0	500
	RSS	Respiratory sign	0	0	155	0	0	155
	RUE	Red urine	0	0	777	0	0	777
	SDN	Sudden death	13	0	41	41	0	0
	SKL	Skin lesions	0	0	257	0	0	257
	TMP	Tympany	0	0	1786	0	0	1786
	WND	Wound	0	0	1060	0	0	1060

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Far-Western

Ecozone: Hill

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	5	0	79	0	0	79
A050	PPR	Peste des petits ruminants	1	0	34	18	156361	16
B058	RAB	Rabies	0	0	0	0	501	0
B109	HS	Haemorrhagic septicaemia	4	0	146	0	8473	146
B307	FPX	Fowl pox	10	0	244	7	60	237
B309	IBD	Infectious bursal disease (Gumboro disease)	3	0	875	0	0	875
C614	BQR	Blackquarter	0	0	0	0	2115	0
C620	COC	Coccidiosis	41	0	9070	198	0	8872
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	11190	21	0	11169
	ABR	Abortion	0	0	375	0	0	375
	CGH	Cough	0	0	288	0	0	288
	DRA	Diarrhoea	1	0	6895	51	0	6844
	DYS	Dystocia	0	0	133	12	0	121
	EPH	Ephemeral fever	0	0	109	1	0	108
	EXP	External parasites	0	0	11277	0	0	11277
	HEI	Hydatidosis / Echinococcus Infestation	0	0	3000	0	0	3000
	HMC	Haemonchus	0	0	4	0	0	4
	INF	Infertility	0	0	957	0	0	957
	INH	Intestinal helminthiasis	0	0	496	14	0	482
	KHA	Khari disease	12	0	87	0	0	87
	MAS	Mastitis	0	0	447	0	0	447
	MKF	Milk fever	0	0	135	0	0	135
	MNG	Mange	0	0	1497	2	0	1495
	NVS	Nervous sign	7	0	40	0	0	40
	PGE	Parasitic gastroenteritis	0	0	1204	4	0	1200
	PNU	Pneumonia	0	0	201	15	0	186
	PRM	Paramphistomosis	0	0	3470	3	0	3467
	PSN	Poisoning	0	0	698	58	0	640
	RES	Respiratory disease - unclassified	5	0	1601	23	0	1578

OIE CODE	CEU code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
	RSS	Respiratory sign	0	0	1511	0	0	1511
	RUE	Red urine	0	0	278	22	0	256
	SDN	Sudden death	12	0	75	75	0	0
	SKL	Skin lesions	0	0	1676	0	0	1676
	TMP	Tympany	0	0	2031	28	0	2003
	WND	Wound	0	0	3759	4	0	3755

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor,Kathmandu,Nepal

Sixmonthly Diseases Report

First Sixmonth

Region: Far-Western

Ecozone: Tarai

Year: 2016

Period: Jan.-16 to Jun.-16

OIE CODE	VEC code	Disease Name	Epizootiology of the diseases				Disease Control	
			Number of				Number of animal	
			outbreaks	susceptible	affected	dead	vaccinated	treated
A010	FMD	Foot and mouth disease	0	0	0	0	47000	0
A050	PPR	Peste des petits ruminants	0	0	0	0	226000	0
B058	RAB	Rabies	1	0	1	1	452	0
B109	HS	Haemorrhagic septicaemia	0	0	0	0	21795	0
B307	FPX	Fowl pox	2	0	200	7	0	193
C614	BQR	Blackquarter	0	0	0	0	21795	0
C620	COC	Coccidiosis	192	500	3024	27	0	2997
C621	FLK	Liver fluke / Fascioliasis / Distomatosis	0	0	10503	0	0	10503
	ABR	Abortion	0	0	1608	0	0	1608
	DRA	Diarrhoea	0	0	4377	0	0	4377
	EXP	External parasites	0	0	1306	2	0	1304
	GIN	Gastro-intestinal nematodes	0	0	455	0	0	455
	INF	Infertility	0	0	2264	0	0	2264
	MAS	Mastitis	0	0	1407	0	0	1407
	MNG	Mange	0	0	962	0	0	962
	NVS	Nervous sign	0	0	837	0	0	837
	PGE	Parasitic gastroenteritis	0	0	3085	0	0	3085
	PRM	Paramphistomosis	0	0	3088	0	0	3088
	RES	Respiratory disease - unclassified	0	0	1451	0	0	1451
	RUE	Red urine	0	0	55	0	0	55
	SKL	Skin lesions	0	0	1335	0	0	1335

Note: U= Unclassified (Not mentioned in OIE List

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Foot and mouth disease

Period covered: Jan. to Jun.,2016

Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Ilam		2	0	5	0	0	5
		Panchthar		0	0	0	0	5000	0
	Mountain	Taplejung		0	0	0	0	1090	0
	Tarai	Jhapa		6	7400	163	5	34330	158
		Siraha		2	0	850	0	7597	850
Regional Total				10	7400	1018	5	48017	1013
Central	Hill	Bhaktapur		0	0	0	0	9336	0
		Dhading		5	0	67	47	13445	20
		Kathmandu		13	262	636	29	25871	607
		Kavre		0	0	0	0	41470	0
		Lalitpur		6	0	224	0	6209	224
		Nuwakot		0	0	0	0	7790	0
		Ramechhap		5	0	218	22	1550	196
	Mountain	Sindhuli		0	0	0	0	8490	0
		Dolakha		12	3470	86	4	3920	82
		Rasuwa		0	0	0	0	2193	0
		Sindhupalchowk		0	0	0	0	4508	0
	Tarai	Mahottari		5	425	38	0	0	38
		Rautahat		0	0	0	0	300	0
Regional Total				46	4157	1269	102	125082	1167
Western	Hill	Gulmi		0	0	0	0	1272	0
		Kaski		8	3334	358	10	2445	348
		Lamjung		2	0	7	0	245	7
		Palpa		1	60	16	2	492	14
		Parbat		5	250	36	0	195	36
		Syangja		12	0	723	4	1311	719
	Tarai	Tanahu		0	0	0	0	1090	0
		Kapilbastu		2	23000	345	17	0	328
		Nawalparasi		1	122	5	0	20000	5
Regional Total				31	26766	1490	33	123072	1457
Mid-Western	Hill	Dailekh		6	0	967	0	1380	967
		Salyan		0	0	0	0	800	0
	Mountain	Humla		0	0	0	0	3611	0
		Jumla		1	0	7	0	0	7
	Tarai	Banke		18	10070	711	97	2326	614
		Bardiya		0	0	0	0	3740	0
		Dang		0	0	0	0	1350	0
Regional Total				25	10070	1685	97	13207	1588
Far-Western	Hill	Doti		5	0	79	0	0	79
	Tarai	Kanchanpur		0	0	0	0	47000	0
Regional Total				5		79	0	47000	79
Grand Total				117	48393	5541	237	356378	5304

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

FMD

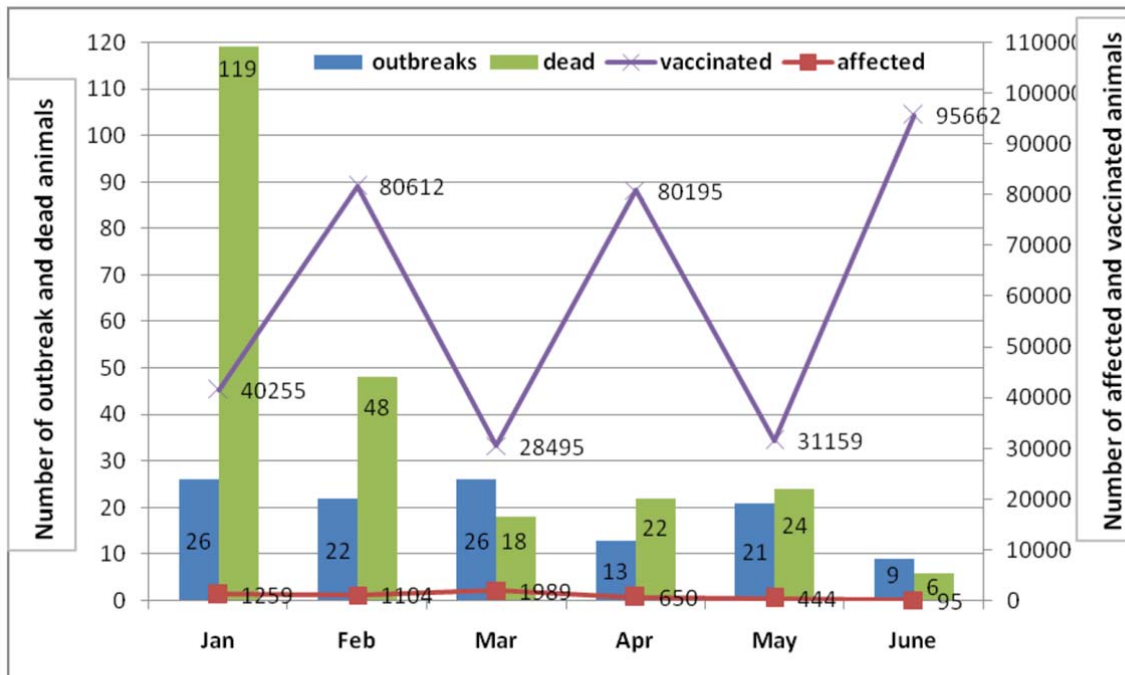


Figure 1: Month wise distribution of outbreaks of FMD during Jan-June, 2016.

Figure 1: Month wise distribution of outbreaks of FMD during Jan-June, 2016.

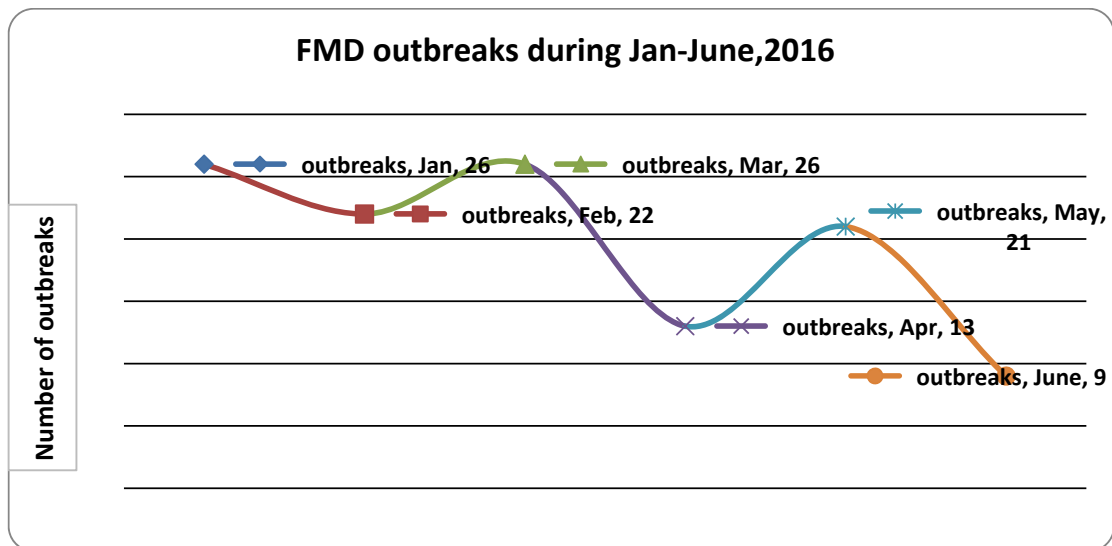


Figure 2: Month wise distribution of outbreaks of FMD during Jan-June, 2016.

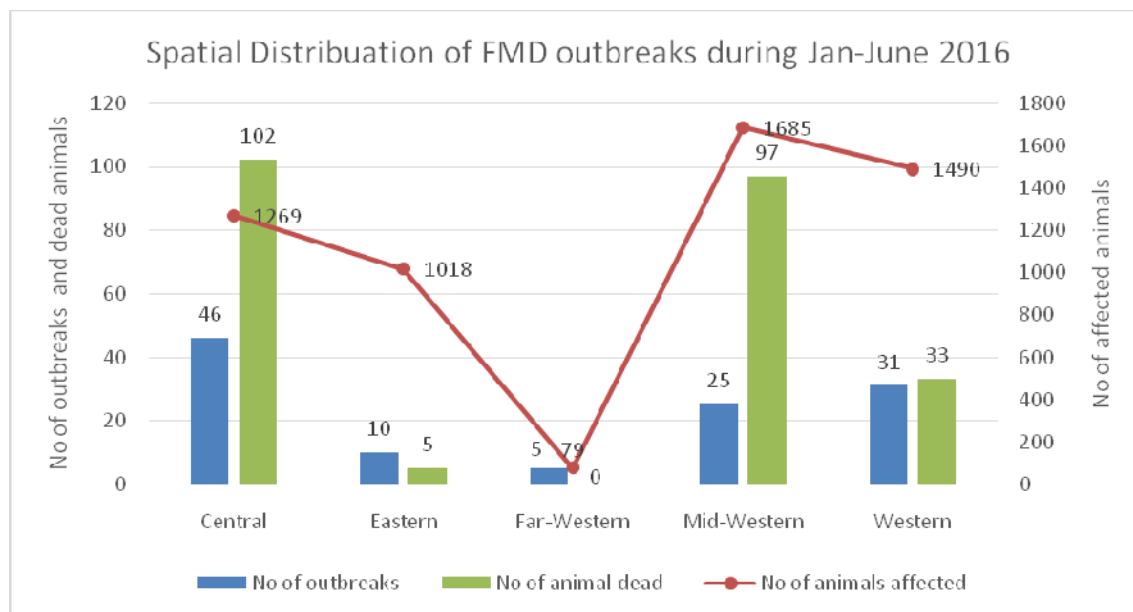


Figure: Spatial (Development Region wise) distribution of outbreaks of FMD during Jan-June, 2016.

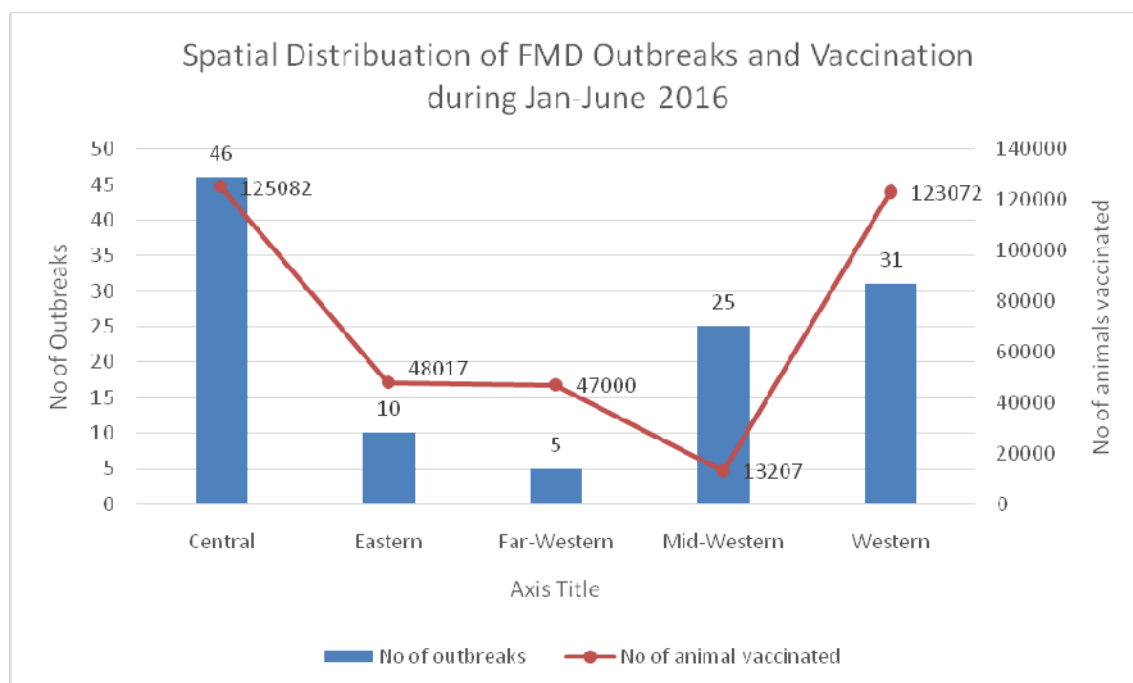


Figure: Spatial (Development Region wise) distribution of outbreaks of FMD and vaccination during Jan-June, 2016.

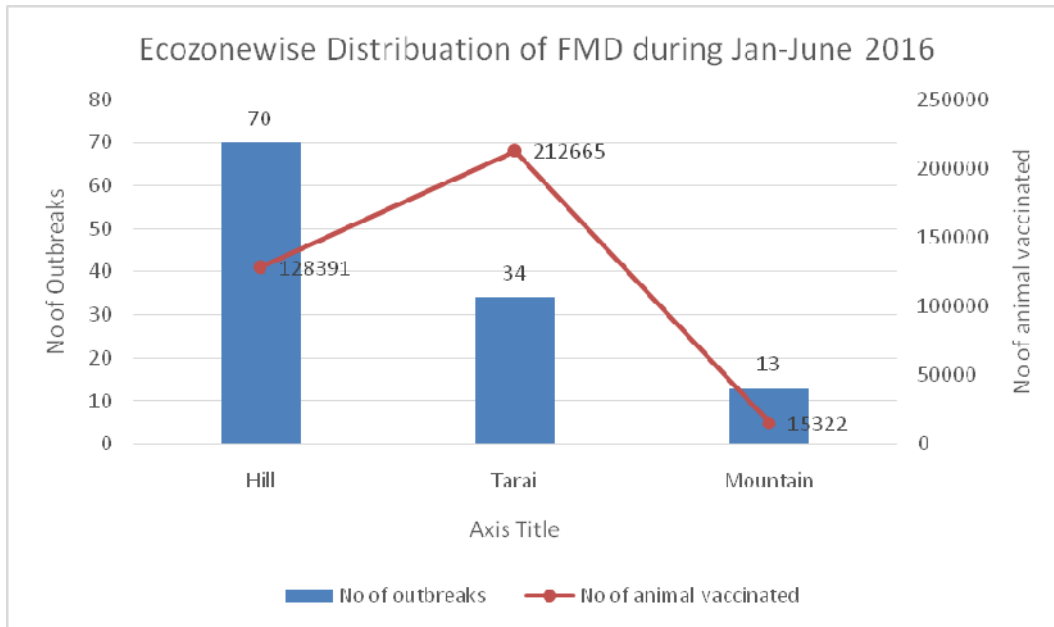


Figure: Spatial (Eco Zone wise) distribution of outbreaks of FMD and vaccination during Jan-June, 2016.

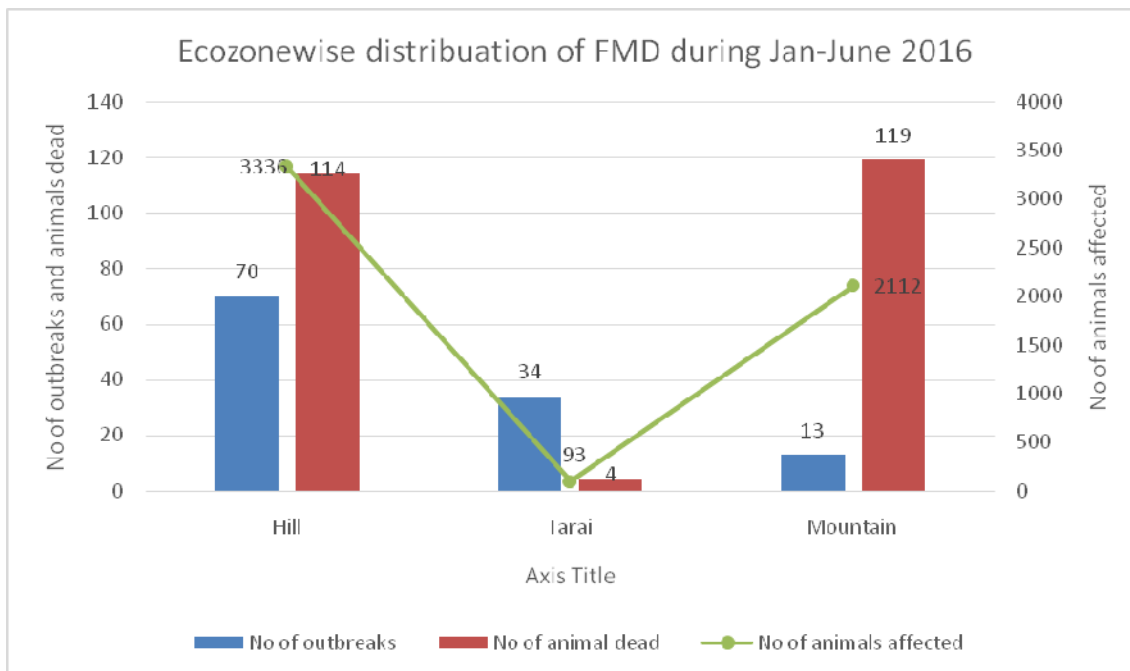


Figure: Spatial (Eco Zone wise) distribution of outbreaks of FMD and vaccination during Jan-June, 2016.

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Peste des petits ruminants

Period covered: Jan. to Jun.,2016

Period covered: Jan. to Jan., 2019									
Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Bhojpur	PPR	0	0	0	0	30113	0
		Dhankuta	PPR	1	0	39	13	31000	26
		Ilam	PPR	1	0	1	0	0	1
		Panchthar	PPR	0	0	0	0	30000	0
		Terhathum	PPR	0	0	0	0	40000	0
		Udayapur	PPR	0	0	0	0	30000	0
	Mountain	Taplejung	PPR	0	0	0	0	30000	0
	Tarai	Jhapa	PPR	1	2000	36	15	60900	21
		Morang	PPR	1	0	36	8	1100	28
		Siraha	PPR	3	0	4450	52	2460	4398
Regional Total				7	2000	4562	88	255573	4474
Central	Hill	Bhaktapur	PPR	0	0	0	0	365	0
		Kathmandu	PPR	0	0	0	0	31200	0
		Kavre	PPR	0	0	0	0	60000	0
		Makwanpur	PPR	0	0	0	0	79600	0
		Ramechhap	PPR	0	0	0	0	1000	0
		Sindhuli	PPR	0	0	0	0	50000	0
	Mountain	Dolakha	PPR	2	600	80	55	2000	25
		Rasuwa	PPR	0	0	0	0	8100	0
	Tarai	Bara	PPR	2	0	105	0	0	105
		Chitwan	PPR	1	0	3	0	0	3
		Mahottari	PPR	2	62	1038	105	10000	933
		Parsa	PPR	3	0	2020	441	0	1579
		Rautahat	PPR	0	0	0	0	2800	0
Regional Total				10	662	3246	601	245065	2645
Western	Hill	Arghakhanchi	PPR	1	0	152	46	45800	106
		Gulmi	PPR	0	0	0	0	42720	0
		Kaski	PPR	0	0	0	0	2400	0
		Lamjung	PPR	2	0	750	240	6300	510
		Palpa	PPR	0	0	0	0	18000	0
		Parbat	PPR	0	0	0	0	5700	0
		Syangja	PPR	0	0	0	0	40000	0
	Tarai	Nawalparasi	PPR	0	0	0	0	75000	0
		Rupandehi	PPR	0	0	0	0	57296	0
Regional Total				3	0	902	286	293216	616

Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Mid-Western	Hill	Dailekh	PPR	1	0	386	61	4468	325
		Salyan	PPR	1	0	150	17	35504	133
	Mountain	Humla	PPR	4	0	291	29	23150	262
		Jumla	PPR	2	0	98	20	75	78
	Tarai	Banke	PPR	4	12250	765	33	81200	732
		Bardiya	PPR	0	0	0	0	69716	0
		Dang	PPR	0	0	0	0	82100	0
Regional Total				12	12250	1690	160	296213	1530
Far-Western	Hill	Achham	PPR	0	0	0	0	46300	0
		Baitadi	PPR	0	0	0	0	35000	0
		Dadeldhura	PPR	0	0	0	0	35000	0
		Doti	PPR	1	0	34	18	40061	16
	Mountain	Bajhang	PPR	0	0	0	0	14500	0
		Bajura	PPR	2	0	777	777	40000	0
	Tarai	Kanchanpur	PPR	0	0	0	0	226000	0
Regional Total				3	0	811	795	436861	16
Grand Total				35	14912	11211	1930	1526928	9281

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

PPR

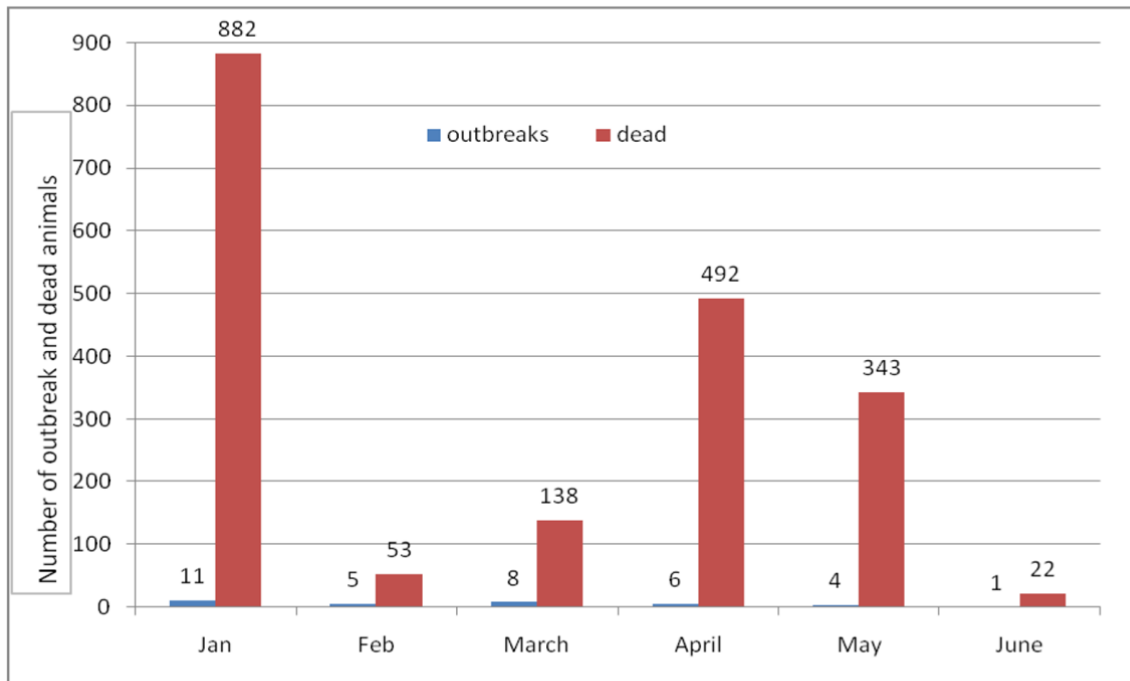


Figure 3: Month wise distribution of outbreak of PPR during Jan-June, 2016

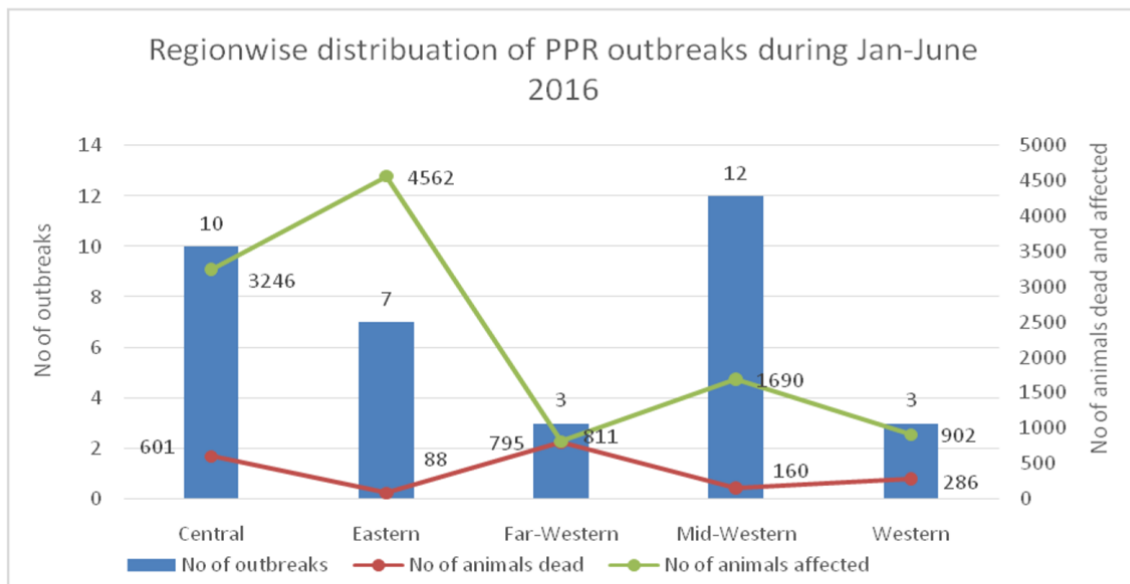


Figure: Spatial (Development Region wise) distribution of outbreaks of PPR during Jan-June, 2016.

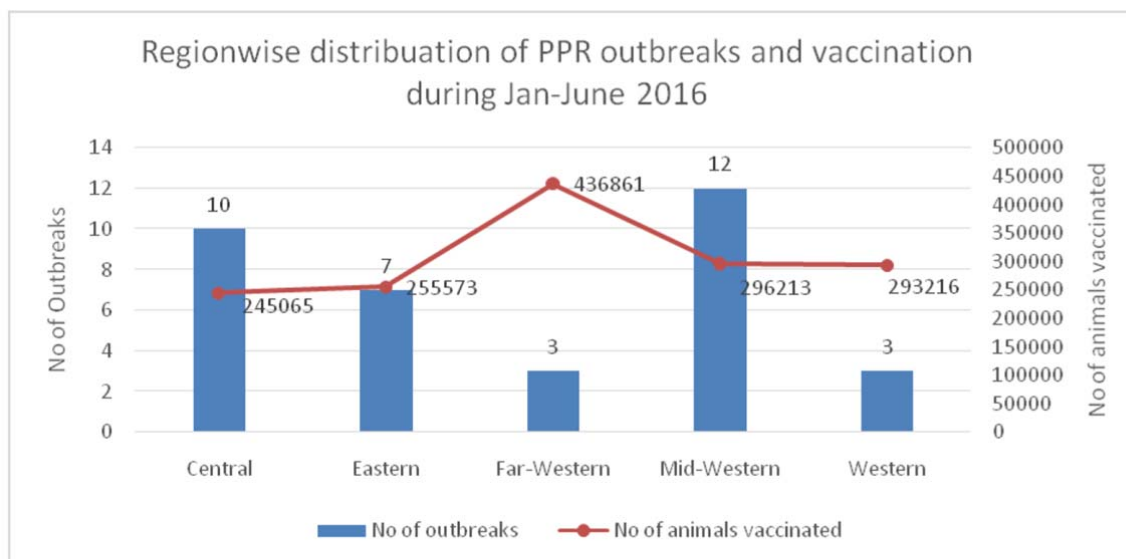


Figure: Spatial (Development Region wise) distribution of outbreaks and vaccination of PPR during Jan-June, 2016.

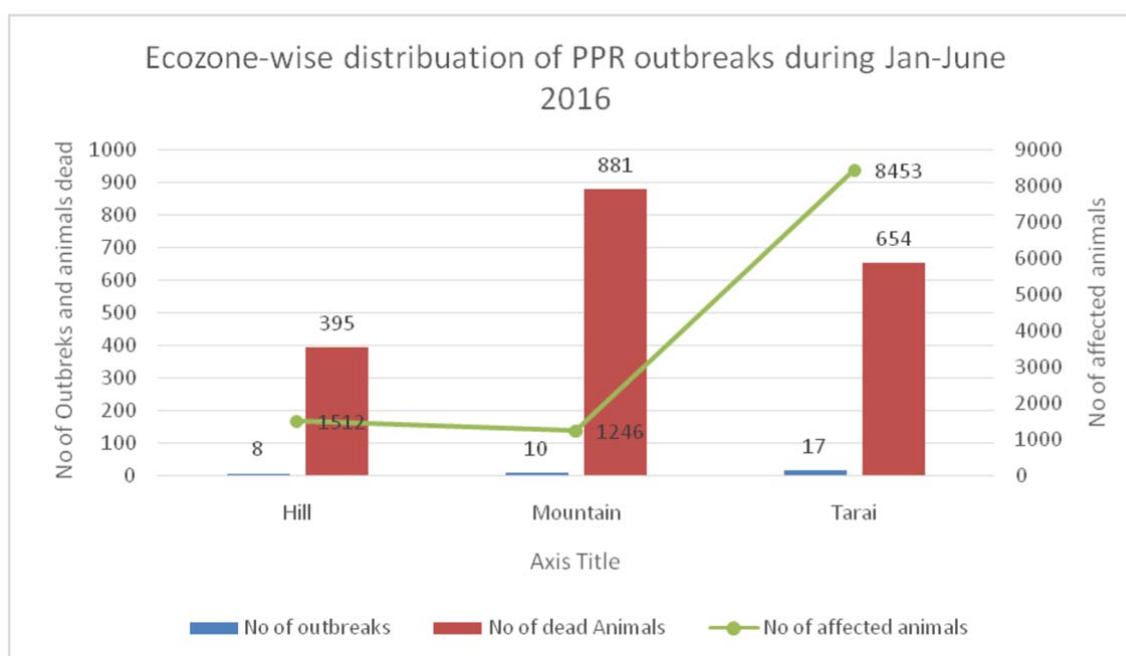


Figure: Spatial (Ecozone wise) distribution of outbreaks and vaccination of PPR during Jan-June, 2016.

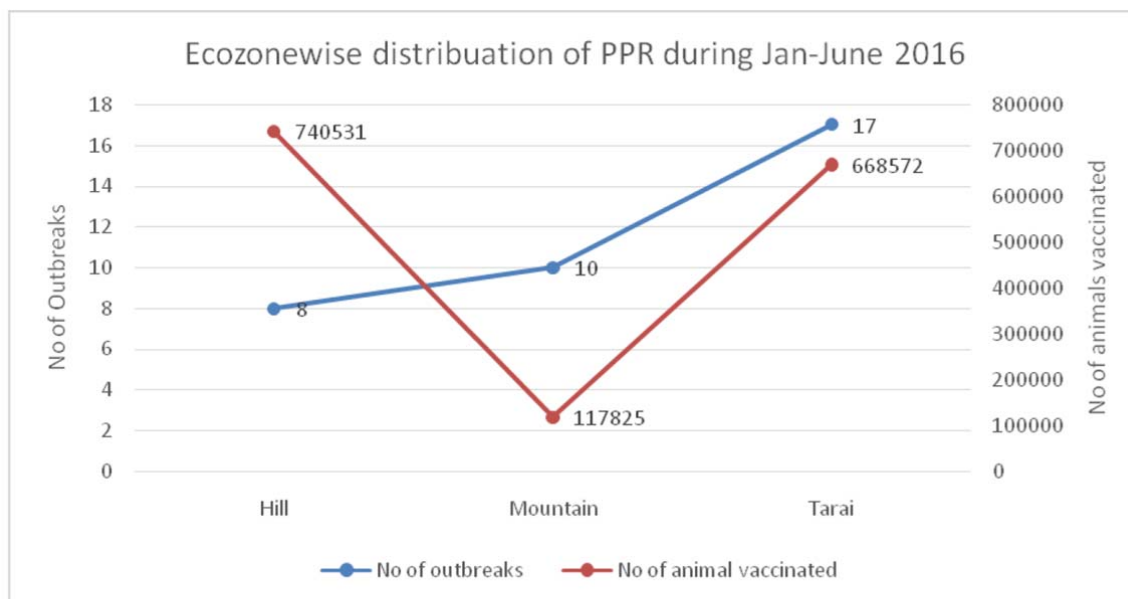


Figure: Spatial (Ecozone wise) distribution of outbreaks and vaccination of PPR during Jan-June, 2016.

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Haemorrhagic Septicemia

Period covered: Jan. to Jun.,2016

Period covered: Jan. to Jan., 2010									
Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Bhojpur	HS	0	0	0	0	12968	0
		Khotang	HS	0	0	0	0	9508	0
		Panchthar	HS	0	0	0	0	4227	0
		Terhathum	HS	0	0	0	0	4350	0
	Mountain	Sankhuwasava	HS	0	0	0	0	1035	0
	Tarai	Siraha	HS	2	0	126	6	0	120
Regional Total				2	0	126	6	32088	120
Central	Hill	Dhading		4	0	325	0	350	325
		Kathmandu		0	0	0	0	10620	0
		Kavre		1	0	50	15	21000	35
		Lalitpur		0	0	0	0	200	0
		Nuwakot		0	0	0	0	480	0
		Ramechap		0	0	0	0	103	0
	Mountain	Dolakha		0	0	0	0	2000	0
		Rasuwa		0	0	0	0	1023	0
		Sindhupalchowk		0	0	0	0	3000	0
	Tarai	Bara		0	0	0	0	23436	0
		Dhanusha		3	0	35	11	3000	24
		Rautahat		0	0	0	0	3985	0
Regional Total				8	0	410	26	69197	384
Western	Hill	Gulmi		0	0	0	0	14651	0
		Lamjung		0	0	0	0	87	0
		Palpa		0	0	0	0	330	0
	Tarai	Nawalparasi		1	43	7	3	16000	4
Regional Total				1	43	7	3	31068	4

Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Mid-Western	Hill	Dailekh		2	0	4	4	5066	0
		Jajarkot		0	0	0	0	17750	0
		Rukum		0	0	0	0	1190	0
		Salyan		0	0	0	0	8500	0
	Mountain	Humla		0	0	0	0	25673	0
		Jumla		1	0	3	0	202	3
		Kalikot		1	3	2	0	2613	2
	Tarai	Banke		2	8	8	0	1100	8
		Bardiya		0	0	0	0	11407	0
		Dang		0	0	0	0	3200	0
Regional Total				6	11	17	4	76701	13
Far-Western	Hill	Dadeldhura		0	0	0	0	6500	0
		Doti		4	0	146	0	1973	146
	Mountain	Bajhang		2	0	39	5	127	34
		Bajura		0	0	0	0	2700	0
	Tarai	Kanchanpur		0	0	0	0	21795	0
	Regional Total				6		185	5	33095
Grand Total				23	54	745	44	242149	701

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu, Nepal

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Blackquarter

Period covered: Jan. to Jun.,2016

Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Bhojpur		0	0	0	0	14868	0
		Terhathum		0	0	0	0	3050	0
	Mountain	Sankhuwasava		0	0	0	0	1035	0
	Tarai	Jhapa		1	1000	18	12	90	6
		Siraha		2	0	120	5	0	115
Regional Total				3	1000	138	17	19043	121
Central	Hill	Dhading		0	0	0	0	1037	0
		Kavre		0	0	0	0	21000	0
		Nuwakot		0	0	0	0	300	0
		Sindhuli		0	0	0	0	8350	0
	Mountain	Dolakha		0	0	0	0	3500	0
		Rasuwa		0	0	0	0	1023	0
	Tarai	Bara		2	0	1591	0	31953	1591
		Dhanusha		3	0	15	7	1000	8
		Rautahat		7	0	0	0	17063	0
		Sarlahi		2	0	13	0	0	13
Regional Total				14	0	1619	7	85226	1612
Western	Hill	Gulmi		0	0	0	0	7191	0
		Lamjung		2	50	11	2	9	9
Regional Total				2	50	11	2	7200	9
Mid-Western	Hill	Jajarkot		0	0	0	0	17750	0
		Rukum		0	0	0	0	1290	0
		Salyan		0	0	0	0	8500	0
	Mountain	Humla		0	0	0	0	14084	0
		Jumla		2	0	7	1	126	6
		Kalikot		1	0	5	2	3731	3
	Tarai	Banke		2	0	2	1	0	1
		Bardiya		0	0	0	0	11407	0
Dang			0	0	0	0	700	0	
Regional Total				5	0	14	4	57588	10
Far-Western	Hill	Doti		0	0	0	0	2115	0
	Tarai	Kanchanpur		0	0	0	0	21795	0
Regional Total				0	0	0	0	23910	0
Grand Total				24	1050	1782	30	192967	1752

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu,Nepal

Outbreaks of Selected Disease for Selected Period- Districtwise
Disease: Newcastle disease / Ranikhet
Period covered: Jan. to Jun.,2016

Regozone			District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Dhankuta		0	0	0	0	17000	0	
		Panchthar		0	0	0	0	15000	0	
	Mountain	Sankhuwasava		2	0	87	0	0	87	
		Taplejung		0	0	0	0	20000	0	
	Tarai	Jhapa		0	0	0	0	7850	0	
		Morang		11	0	568	64	0	504	
		Siraha		1	0	757	21	0	736	
Regional Total				14	0	1412	85	59850	1327	
Central	Hill	Bhaktapur		0	0	0	0	9650	0	
		Dhading		1	0	1000	0	3925	1000	
		Nuwakot		1	0	33	20	0	13	
		Sindhuli		0	0	0	0	16000	0	
	Mountain	Dolakha		6	1340	260	100	0	160	
		Rasuwa		0	0	0	0	3700	0	
		Sindhupalchowk		20	0	8250	0	1600	8250	
	Tarai	Bara		7	0	5345	0	2700	5345	
Regional Total				28	1340	9543	120	34875	9423	
Western	Hill	Arghakhanchi		0	0	0	0	1730	0	
		Gulmi		0	0	0	0	7970	0	
		Lamjung		1	0	256	150	1000	106	
		Palpa		2	0	4910	100	0	4810	
		Parbat		0	0	0	0	1500	0	
		Syangja		5	0	3800	167	0	3633	
	Mountain	Tanahu		0	0	0	0	900	0	
		Mustang		1	0	22	0	0	22	
	Tarai	Kapilbastu		59	100000	1036	450	0	586	
		Nawalparasi		17	0	16945	3744	47500	13201	
Regional Total				85	100000	26969	4611	69600	22358	
Mid-Western	Hill	Dailekh		2	0	92	28	0	64	
Mid-Western	Hill	Rolpa		0	0	0	0	23112	0	
		Rukum		0	0	0	0	17000	0	
		Salyan		0	0	0	0	500	0	
		Surkhet		0	0	0	0	8357	0	
	Mountain	Dolpa		0	0	0	0	1400	0	
		Kalikot		0	0	0	0	525	0	
	Tarai	Banke		0	0	0	0	5400	0	
		Bardiya		3	0	9800	253	0	9547	
Regional Total				24	0	11466	386	74494	11080	
Far-Western	Mountain	Bajhang		0	0	0	0	15000	0	
Far-Western	Mountain	Bajura		0	0	0	0	3600	0	
Regional Total				0	0	0	0	18600	0	
Grand Total				151	101340	49390	5202	257419	44188	

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered
Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu,Nepal

ND

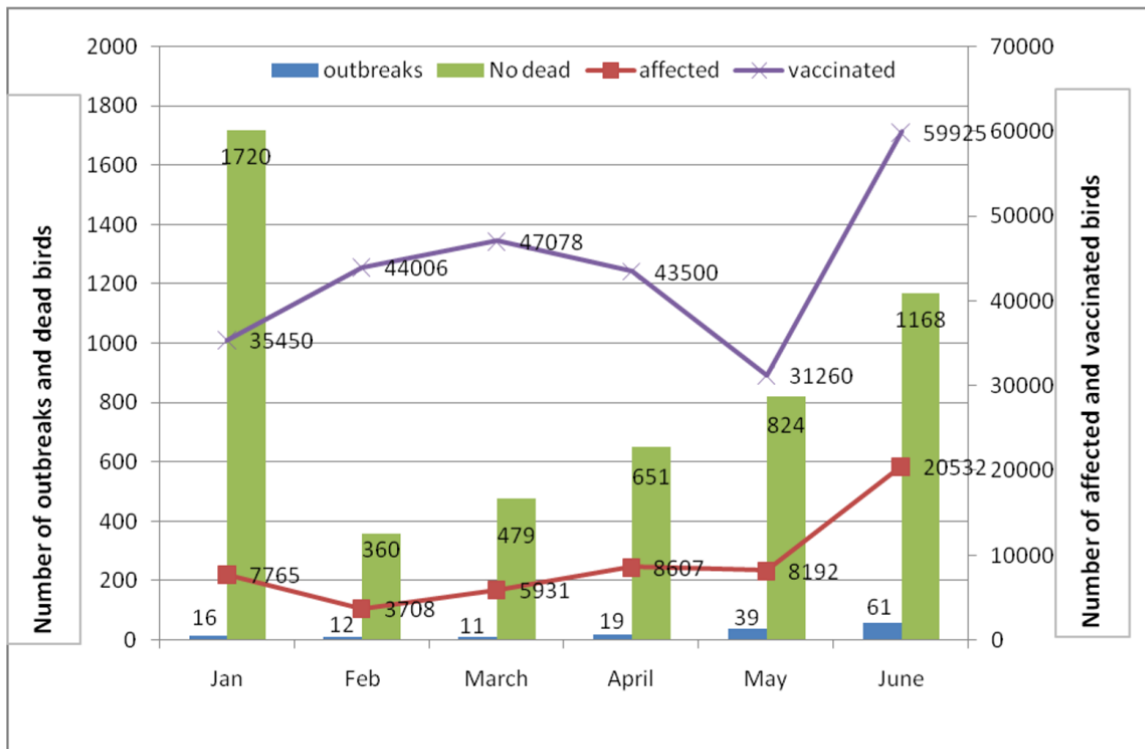


Figure: Month wise distribution of outbreaks of ND during Jan-June, 2016

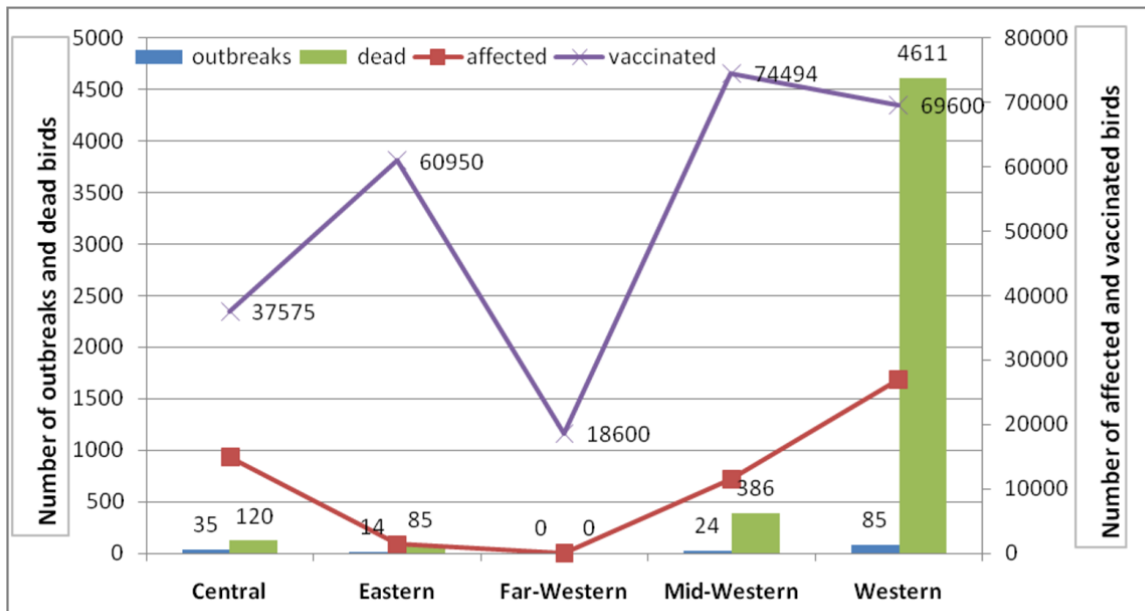


Figure: Spatial (Development Region wise) distribution of outbreaks of ND during Jan-June, 2016

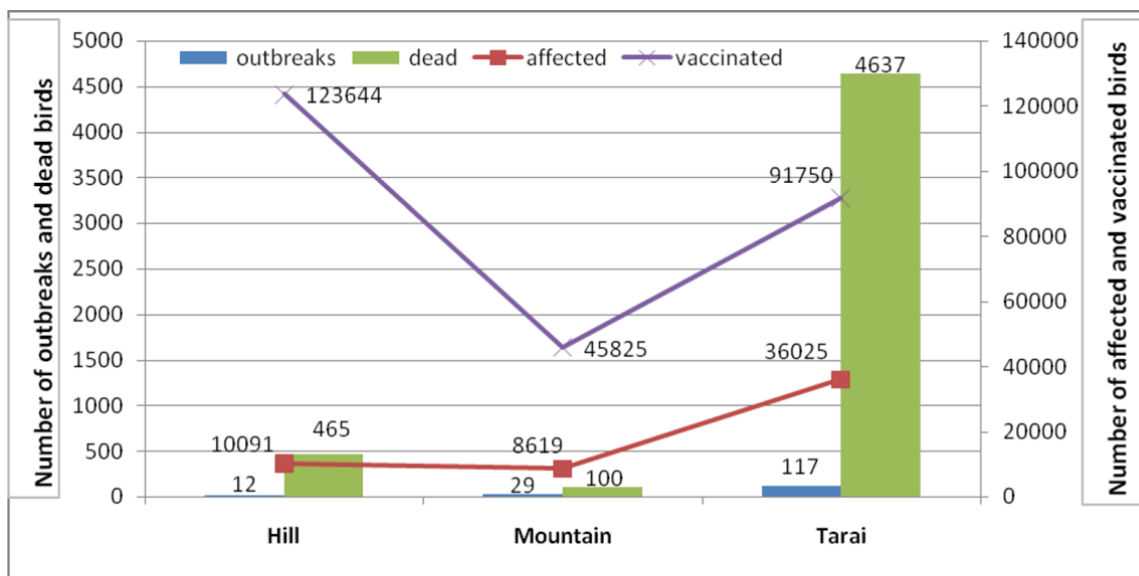


Figure: Spatial (Eco zone wise) distribution of outbreaks of ND during Jan-June, 2016

Outbreaks of Selected Disease for Selected Period- Districtwise
Disease: Infectious bursal disease (Gumboro disease)
Period covered: Jan. to Jun.,2016

Period covered: Jan. - 5 Jan., 2010									
Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Dhankuta		1	1000	80	60	0	20
	Mountain	Sankhuwasava		1	0	195	0	0	195
		Taplejung		1	0	300	5	0	295
	Tarai	Jhapa		2	3400	102	72	3350	30
		Morang		23	0	367	74	0	293
		Siraha		3	1189	3379	184	0	3195
Regional Total				31	5589	4423	395	3350	4028
Central	Hill	Bhaktapur		0	0	0	0	8000	0
		Nuwakot		38	0	41290	650	2466	40640
		Sindhuli		0	0	0	0	16780	0
	Mountain	Dolakha		5	780	121	20	0	101
		Sindhupalchowk		10	0	250	0	700	250
Regional Total				53	780	41661	670	27946	40991
Western	Hill	Baglung		1	5500	2150	220	0	1930
		Gulmi		1	0	115	10	8700	105
		Kaski		5	2000	1881	81	0	1800
		Lamjung		6	0	11169	395	0	10774
		Palpa		5	0	20256	190	268	20066
		Parbat		2	0	33	1	0	32
		Syangja		5	0	5400	227	0	5173
		Tanahu		4	0	1316	68	1800	1248
	Tarai	Kapilbastu		38	80000	1214	660	0	554
		Nawalparasi		15	0	29501	4522	40725	24979
		Rupandehi		0	0	0	0	31000	0
Regional Total				82	87500	73035	6374	82493	66661
Mid-Western	Hill	Pyuthan		18	180	1871	130	0	1741
		Rolpa		0	0	0	0	7760	0
		Rukum		0	0	0	0	17000	0
	Mountain	Dolpa		0	0	0	0	700	0
	Tarai	Banke		3	100	12	12	0	0
		Bardiya		1	2500	1500	55	0	1445
		Dang		39	0	1970	120	15500	1850
Regional Total				61	2780	5353	317	40960	5036
Far-Western	Hill	Achham		3	0	875	0	0	875
Regional Total				3	0	875	0	0	875
Grand Total				230	96649	135347	7756	154749	12759

Outbreaks Selected Disease for Selected period District (Total) NOTE:see page 1 for disease and period covered

Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu,Nepal

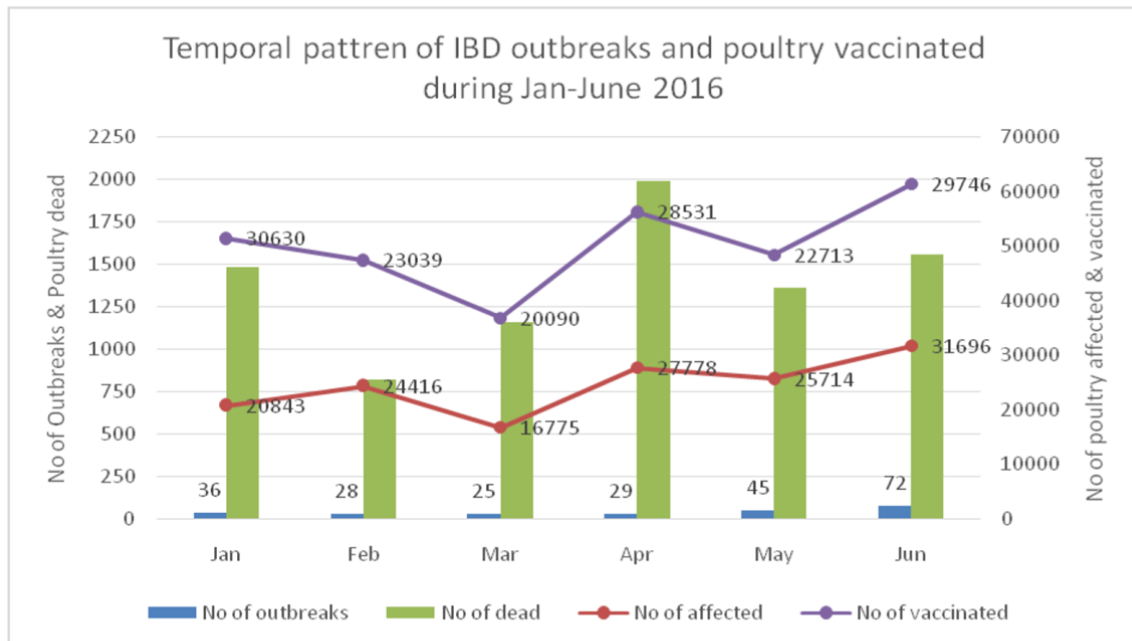


Figure: Temporal distribution of outbreaks of IBD during Jan-June, 2016

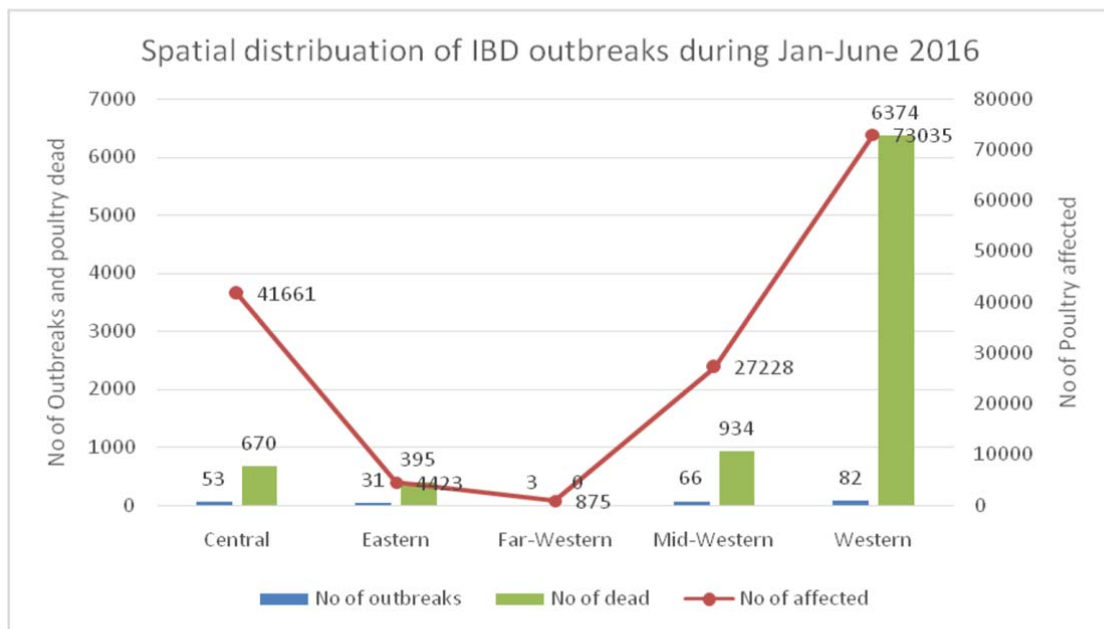


Figure: Spatial distribution of outbreaks of IBD during Jan-June, 2016

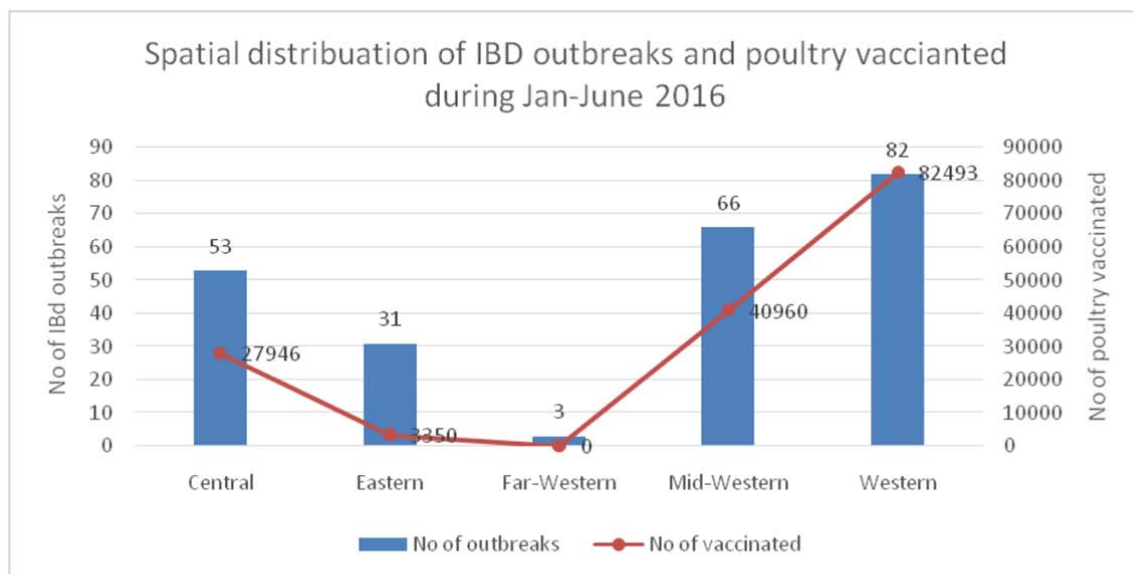


Figure: Temporal distribution of outbreaks and Vaccination of IBD during Jan-June, 2016

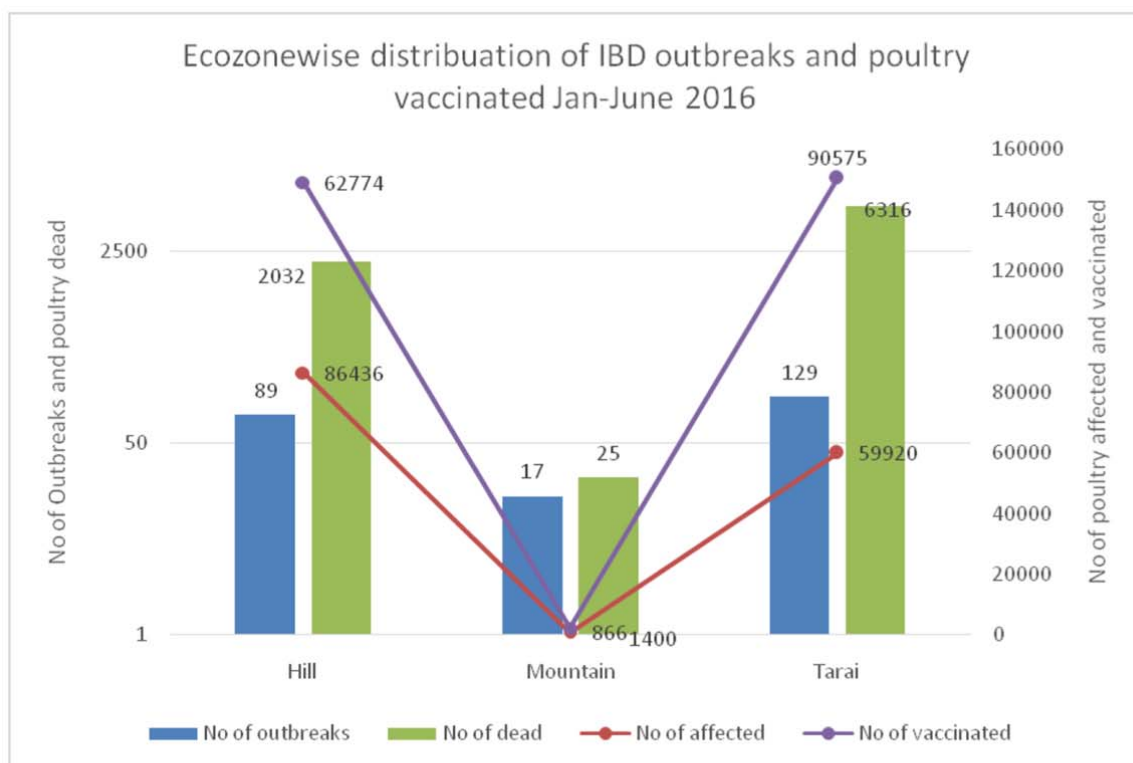


Figure: Spatial (Eco zone wise) distribution of outbreaks of IBD during Jan-June, 2016

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Classical Swine Fever (Hog Cholera)

Period covered: Jan. to Jun.,2016

Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Dhankuta		0	0	0	0	500	0
Regional Total				0	0	0	0	500	0
Central	Hill	Kathmandu		0	0	0	0	14550	0
		Sindhuli		0	0	0	0	4040	0
	Mountain	Rasuwa		0	0	0	0	500	0
Regional Total				0	0	0	0	19090	0
Western	Hill	Kaski		1	0	20	3	300	17
		Palpa		1	15	1	0	0	1
Regional Total				2	15	21	3	300	18
Mid-Western	Hill	Salyan		0	0	0	0	500	0
	Tarai	Banke		1	1000	24	24	561	0
		Bardiya		0	0	0	0	4485	0
Regional Total				1	1000	24	24	5546	0
Grand Total				3	1015	45	27	25436	18

Outbreaks of Selected Disease for Selected Period- Districtwise

Disease: Sheep and goat pox

Period covered: Jan. to Jun.,2016

Period covered: Jan-19 to Jan-2020									
Regozone		District	Disease Code	outbreaks Number	susceptible Number	affected Number	dead Number	vaccinated Number	treated Number
Eastern	Hill	Okhaldhunga		6	0	180	0	0	180
	Tarai	Siraha		2	0	193	10	0	183
Regional Total				8	0	373	10	0	363
Central	Mountain	Dolakha		2	300	29	0	0	29
	Tarai	Sarlahi		1	0	150	0	0	150
Regional Total				3	300	179	0	0	179
Western	Hill	Gulmi		2	0	7	0	0	7
		Lamjung		1	0	4	0	0	4
Regional Total				3	0	11	0	0	11
Mid-Western	Hill	Dailekh		4	0	74	0	0	74
Regional Total				4	0	74	0	0	74
Grand Total				18	300	637	10	0	627

Outbreaks Selected Disease for Selected period District (Total) **NOTE:**see page 1 for disease and period covered
 Veterinary Epidemiology Center (VEC), Directorate of Animal Health, Tripureswor, Kathmandu,Nepal

Species-wise distribution of top ten Specific and non-specific disease livestock and poultry diseases based on number of affected, Nepal : Jan. to Jun.,2016

Major Specific and Non-specific diseases of Cattle reported during Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Liver fluke / Fascioliasis / Distomatosis	0	90270	27	0.03	specific Disease
Paramphistomosis	0	37144	5	0.01	specific Disease
Diarrhoea	0	31409	196	0.62	Non-specific Disease
Parasitic gastroenteritis	0	19592	126	0.64	Non-specific Disease
External parasites	0	16798	0		Non-specific Disease
Infertility	0	16636	0		Non-specific Disease
Mastitis	0	8255	1	0.01	Non-specific Disease
Wound	0	7511	2	0.03	Non-specific Disease
Mange	0	7436	2	0.03	Non-specific Disease
Tympany	0	6550	14	0.21	Non-specific Disease

Major Specific and Non-specific diseases of Buffalo reported during Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Liver fluke / Fascioliasis / Distomatosis	0	72438	24	0.03	specific Disease
Paramphistomosis	0	32917	4	0.01	specific Disease
Diarrhoea	0	26631	125	0.47	Non-specific Disease
Parasitic gastroenteritis	0	17847	115	0.64	Non-specific Disease
External parasites	0	13720	0		Non-specific Disease
Infertility	0	12923	0		Non-specific Disease
Mastitis	0	6682	3	0.04	Non-specific Disease
Wound	0	5820	0		Non-specific Disease
Mange	0	5417	2	0.04	Non-specific Disease
Tympany	0	5356	7	0.13	Non-specific Disease

Major Specific and Non-specific diseases of Goat reported during, Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Liver fluke / Fascioliasis / Distomatosis	0	120966	101	0.08	specific Disease
Diarrhoea	0	55777	430	0.77	Non-specific Disease
External parasites	0	52510	0		Non-specific Disease
Mange	0	51540	13	0.03	Non-specific Disease

Parasitic gastroenteritis	0	51451	115	0.22	Non-specific Disease
Paramphistomosis	0	37356	9	0.02	specific Disease
Wound	0	12240	7	0.06	Non-specific Disease
Skin lesions	0	10832	0		Non-specific Disease
Respiratory disease - unclassified	2	10082	64	0.63	Non-specific Disease
Tympany	0	9802	42	0.43	Non-specific Disease

Major Specific and Non-specific diseases of Sheep reported during , Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Liver fluke / Fascioliasis / Distomatosis	0	18513	15	0.08	Specific Disease
External parasites	0	8468	0		Non-specific Disease
Parasitic gastroenteritis	0	6940	56	0.81	Non-specific Disease
Paramphistomosis	0	6730	0	0.00	Non-specific Disease
Mange	0	5996	5	0.08	Non-specific Disease
Diarrhoea	0	4940	123	2.49	specific Disease
Peste des petits ruminants	8	2131	483	22.67	specific Disease
Wound	0	1077	2	0.19	Non-specific Disease
Infertility	0	994	0	0.00	Non-specific Disease
Tympany	0	885	11	1.24	Non-specific Disease

Major Specific and Non-specific diseases of Swine reported during , Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Parasitic gastroenteritis	0	13958	27	0.19	Non-specific Disease
Diarrhoea	0	5582	75	1.34	Non-specific Disease
Poisoning	0	5162	175	3.39	Non-specific Disease
Mange	0	3905	0		Non-specific Disease
Skin lesions	0	3331	0		Non-specific Disease
External parasites	0	2433	0		Non-specific Disease
Wound	0	1371	0		Non-specific Disease
Respiratory disease - unclassified	2	970	20	2.06	Non-specific Disease
Roundworm	0	849	0		specific Disease
Abortion	0	838	0		specific Disease

Major Specific and Non-specific diseases of Chicken reported during, Jan. to Jun., 2016

DISEASE	No of outbreaks	No of affected	No of dead	Case Fatality Rate (%)	Remarks
Respiratory disease - unclassified	469	210428	8207	3.90	Non-specific Disease
Infectious bursal disease (Gumboro disease)	234	185797	8373	4.51	specific Disease
Coccidiosis	667	94399	3915	4.15	specific Disease
Diarrhoea	0	89628	3113	3.47	Non-specific Disease
Colibacillosis	155	77202	3183	4.12	Non-specific Disease
Intestinal helminthiasis	0	60661	756	1.25	Non-specific Disease
External parasites	0	60327	646	1.07	specific Disease
Newcastle disease / Ranikhet	157	54695	5182	9.47	specific Disease
Mycotoxycosis	55	37451	1533	4.09	Non-specific Disease
Fowl typhoid (<i>S. gallinarum</i>)	23	13615	1039	7.63	specific Disease

Veterinary Epidemiology Center
National Animal Clinical Case Registry

Regional distribution of clinical case reporting, Nepal, January to June, 2016

Region	Clinical Case Reporting	Animal Species								
		Cattle	Yak	Buffalo	Goat	Sheep	Pig	Equine	Avain	Dog
National	No. of cases where sick animal examined	24815	0	18096	24138	503	7646	207	15280	946
	No. of cases where no animal seen but sample exami	24139	0	16198	12265	129	1743	103	8406	243
	No. of cases where no animal seen and no sample	31570	0	20833	31096	1078	9488	267	37479	783
	No. of castrations	11564	0	1892	23725	499	6444	104	3	20
	No Of Vaccination	70511	0	19504	253005	530	0	0	13904	533
Central	No. of cases where sick animal examined	46098	36	33745	54905	587	5300	265	20694	2968
	No. of cases where no animal seen but sample exami	21999	10	20619	22311	377	1038	174	2743	1423
	No. of cases where no animal seen and no sample	33526	684	30335	49462	1263	5264	219	37437	2047
	No. of castrations	6932	0	1197	35499	579	1025	11	0	462
	No Of Vaccination	129167	200	76084	141175	3	10918	600	38098	1661
Western	No. of cases where sick animal examined	15024	336	16662	24755	2898	2644	425	100081	3027
	No. of cases where no animal seen but sample exami	18711	78	20753	16093	1743	1284	161	14389	308
	No. of cases where no animal seen and no sample	21953	900	24908	94818	10001	4125	1140	230399	540
	No. of castrations	2624	9	924	20307	241	2326	20	3353	161
	No Of Vaccination	84482	0	87670	230084	150	4320	0	152798	1517
Mid-Western	No. of cases where sick animal examined	13633	612	10849	28821	7723	1169	1791	75505	1751
	No. of cases where no animal seen but sample exami	5542	99	6041	4975	952	1241	186	2540	502
	No. of cases where no animal seen and no sample	23558	1649	21272	79119	30457	2601	2950	31552	1158
	No. of castrations	3777	30	928	27848	691	980	156	16	44
	No Of Vaccination	18266	25	15703	225104	5000	16561	0	68750	1959
Far-Western	No. of cases where sick animal examined	14043	0	9482	16071	1700	884	430	15629	1413
	No. of cases where no animal seen but sample exami	7521	0	6206	4118	2	171	0	66	103
	No. of cases where no animal seen and no sample	16203	0	11896	27763	2591	512	20	7055	290
	No. of castrations	2466	0	0	8302	0	22	12	0	0
	No Of Vaccination	12131	0	4754	179183	14678	5	0	3600	282
		660255	4668	476551	1634942	84375	87711	9241	879777	24141

Veterinary Epidemiology Center
National Animal Clinical Case Registry

Ecozonal distribution of clinical case reporting, Nepal, January to June, 2016

Ecozone	Clinical Case Reporting	Animal Species								
		Cattle	Yak	Buffalo	Goat	Sheep	Pig	Equine	Avain	Dog
Mountain	No. of cases where sick animal examined	11938	984	8223	18509	8103	1367	2584	24220	1268
	No. of cases where no animal seen but sample exami	6779	187	7212	6270	882	713	304	1331	225
	No. of cases where no animal seen and no sample	23140	3233	15157	99720	33934	2170	4004	19260	1004
	No. of castrations	4939	39	188	13035	1184	1552	257	19	25
	No Of Vaccination	8958	225	7686	50505	5000	0	600	12600	213
Hill	No. of cases where sick animal examined	49603	0	41858	78419	3843	9847	181	124207	5782
	No. of cases where no animal seen but sample exami	36662	0	36676	31110	1553	3127	112	11706	550
	No. of cases where no animal seen and no sample	65328	0	63972	137111	8831	15177	255	244805	1253
	No. of castrations	13189	0	3791	65143	627	5718	46	3353	654
	No Of Vaccination	114807	0	100100	553895	9831	10269	0	98140	2298
Tarai	No. of cases where sick animal examined	52072	0	38753	51762	1465	6429	353	78762	3055
	No. of cases where no animal seen but sample exami	34471	0	25929	22382	768	1637	208	15107	1804
	No. of cases where no animal seen and no sample	38342	0	30115	45427	2625	4643	337	79857	2561
	No. of castrations	9235	0	962	37503	199	3527	0	0	8
	No Of Vaccination	190792	0	95929	424151	5530	21535	0	166410	3441
Total		660255	4668	476551	1634942	84375	87711	9241	879777	24141

Veterinary Epidemiology Center

Regional distribution of AI and Natural Insemination Report, Nepal, January to June, 2016

Region	Cattle	Yak	Buffalo	Goat	Sheep	Pig	Equine	Avian	Dog
Eastern	28243	0	4193	0	0	0	0	0	0
Central	56060	0	9748	0	0	0	0	0	0
Western	28361	0	13056	0	0	0	0	0	0
Mid-Western	2953	0	1057	0	0	0	0	0	0
Far-Western	6405	0	2201	0	0	0	0	0	0
Total	122022	0	30255	0	0	0	0	0	0

Ecozonal distribution of AI and Natural Insemination Report, Nepal, January to June, 2016

Ecozone	Cattle	Yak	Buffalo	Goat	Sheep	Pig	Equine	Avian	Dog
Mountain	1318	0	674	0	0	0	0	0	0
Hill	50585	0	10232	0	0	0	0	0	0
Tarai	70119	0	19349	0	0	0	0	0	0
Total	122022	0	30255	0	0	0	0	0	0

Situation Analysis of Foot and Mouth Disease (FMD) during 2001-2015 in Nepal

Dr. Chanda Shrestha ¹ and Dr Mukul Upadhyaya ²

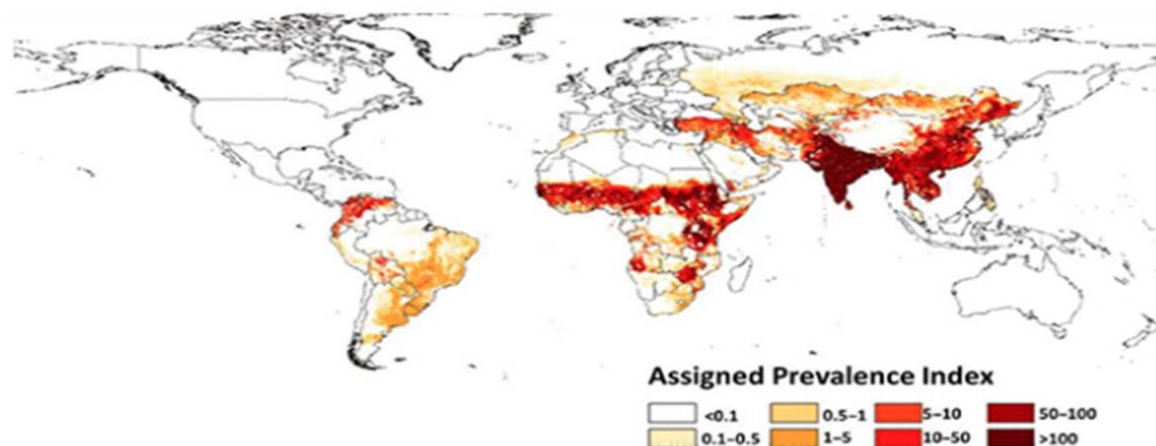
1. Veterinary Officer, VEC, Tripureshwor 2.Senior Veterinary Officer, VEC,Tripureshwor

1. Background

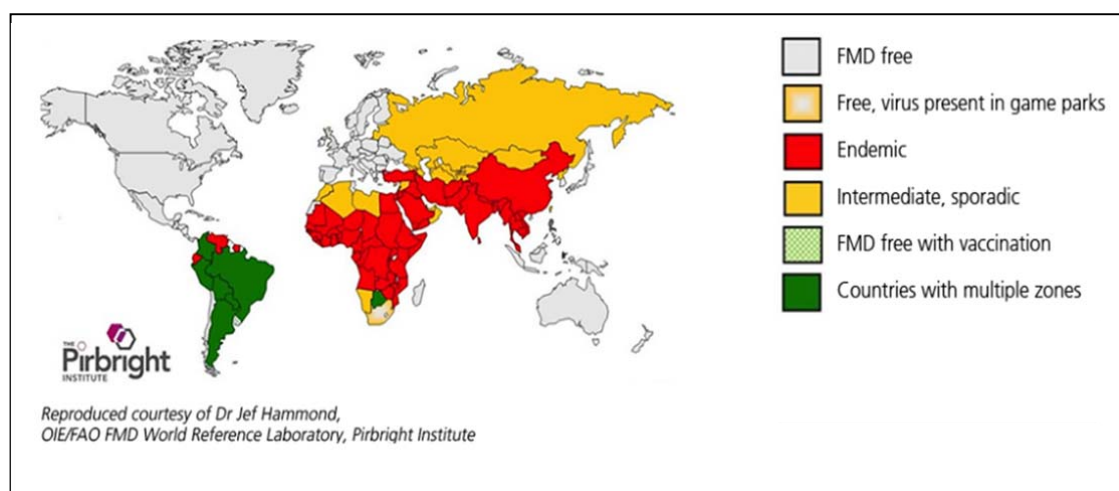
Foot and Mouth Disease (FMD) is highly contagious viral disease affecting all cloven footed animals and elephant. It is caused by an *Aphthovirus* of the family Picornaviridae. FMD is notifiable disease of World Organization for Animal Health (OIE) Terrestrial Animal Health Code, 2009, (Chapter 1.2, Article 1.2.3). There are 7 serotypes Foot and Mouth Disease Virus (FMDV) as A, O, C, Asia 1, and SAT (Southern African Territories) 1, 2, and 3(OIE). A noble serotype A lineage (named A/ASIA/G-VII [G-18]) has recently emerged from the Indian subcontinent. This serotype A lineage is now rapidly spreading in the Middle East (currently detected in Saudi Arabia, Iran, Armenia and Turkey)(FAO, 2016)

This disease is characterized by fever and vesicles in the mouth, muzzle, teats, and feet. It can spread directly through contact or aerosolized virus via respiratory secretions, milk, semen, and ingestion of feed from infected animals (meat, offal, milk). Its morbidity is 100% in susceptible population with rare fatalities except in young animals (The Merck's Veterinary Manual).

FMD is endemic in over 90 countries, the majority of which are developing countries in Asia and sub-saharan Africa. These endemic regions contain over three quarters of the world's FMD susceptible livestock. The impact of FMD on smallholder farmers in these regions can be high, with some studies estimating losses of over 10% of annual income(Knight-Jones, Mclaws and Ruston, 2016). It has been estimated that the annual economic impact of FMD in terms of visible production losses and the costs of vaccination in endemic regions alone amounts to between 6.5 and 21 billion US dollars(Knight-jones and Ruston, 2013). FMD free countries may also be severely impacted due to high costs of disease eradication following an incursion. Improving FMD control worldwide therefore benefits free and endemic countries and is seen as a global public good.



Europe, North and Central America, the Pacific nations and the Caribbean are officially recognized by the OIE as free of FMD without vaccination. The disease is endemic in many countries in Africa, the middle east, Asia and south America, although significant improvements have been made in south America and south east asia in recent years.



FMD is endemic in Nepal since long years back. Its outbreaks is reported every year in Nepal. Improved breeds of cattle, buffaloes and pigs are highly susceptible but, indigenous breeds of animals are equally prone to FMD causing substantial economic loss to livestock industry of the country. Serotype "O" is the most predominant serotype (76.4 %) during (1965-2010) followed by Asia 1 (15.8 %), A (6.5 %) and C (1.2%). Serotype C was observed only during the period from 1990-1996. The serotyping conducted among 65 districts showed serotype O is in increasing trend (82%) followed by serotype Asia 1 (15%) and serotype A (3%) from 2001 to 2010 (Jha, 2010). According to

National Foot and Mouth Disease and TADS Laboratory all the FMDV isolates detected since 2012 using FMDV antigen by Antigen ELISA and Conventional PCR belonged to serotype “O” (FAO, 2016).

Economic loss of FMD was estimated to be 66 million US \$ per year in term of reduction in milk yield and meat production (Gongol, 2002) but an actual loss is high including reduction in breeding efficiency, draft power and cost required to control outbreaks.

Nepal being a member of World Trade Organization (WTO), presence of FMD places economic constraints on the international livestock and its products trade as it can be easily reintroduced into disease-free areas unless strict precautions are in place (Thakuri, 2012).

Based on this situation, National FMD control program was implemented in 2011 . Because of limited resources, concept of Zonation was adopted and 10 districts beyond Koshi River were selected as a pilot area for FMD control. The area was selected based on the natural barrier of Koshi river and Ilam district in Eastern region as a major dairy area which is free of FMD since more than 5 years. The mass vaccination was carried out in the Terai districts bordering Ilam. Surveillance activities were carried out in all 10 districts. Also meeting with the milk cooperatives in selected area and in other districts were carried out to involve them in the control program (DAH, 2013).

2. Methodology

The no. of FMD outbreaks, no. and species of animals, affected, dead, treated, vaccinated from all 75 districts are reported to Veterinary Epidemiology Centre (VEC) through existing passive surveillance system. District Livestock Service Offices (DLSOs) monthly report the every disease condition and outbreaks through this channel to VEC. So, the trend of FMD outbreaks and distribution for it during 15 years (2001-2015) is as shown below.

2.1 Year-wise distribution of FMD Outbreaks in Nepal (2001-2015)

Year-wise distribution of FMD (figure 1) shows that the outbreaks of the disease were recorded every year with the variation in their numbers during last 15 years. The year-wise trend revealed that the numbers of outbreaks were high during 2003 (2078) and 2001 (1903). The higher number of outbreaks during these periods was due to involvement of Pan Asia strain (ME topotype) of serotype 'O' FMD virus, which is more virulent than other strains in majority of outbreaks. Year-wise trend of number of animals affected and dead due to FMD was observed to be similar to that of outbreak trend (Fig. 1) (Thakuri, 2012)

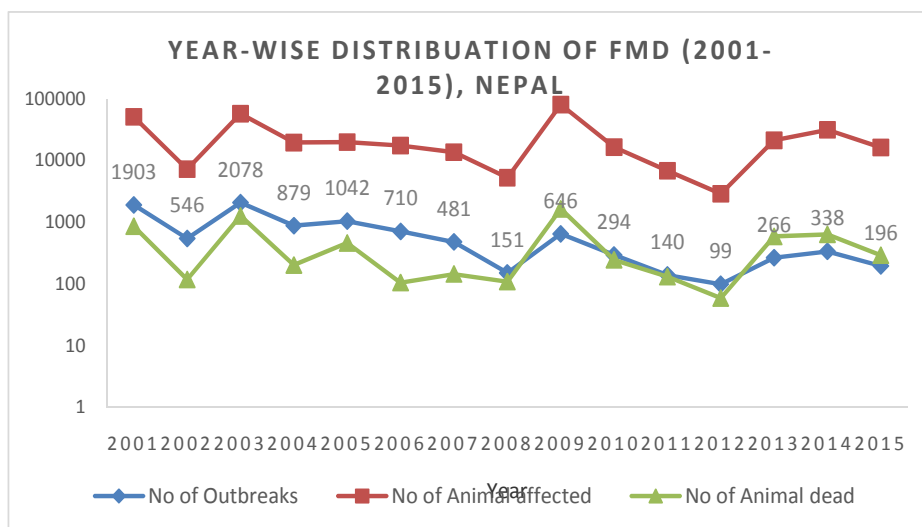


Figure 1: Year-wise distribution of FMD (2001-2015), Nepal

2.2 Monthly distribution of FMD (2001-2015)

Monthly or seasonal distribution of mean number of FMD outbreaks, number of animals affected and dead is presented in figure 2. Figure 2 shows that outbreaks of FMD occurred throughout the year with peak level of occurrence once during May to August (pre monsoon and monsoon period) and again in December. The first rise in the number of FMD outbreaks during pre-monsoon and monsoon periods might have been due to excessive movement of animals for summer agricultural operations that favors the spread of disease resulting in to more outbreaks (Thakuri, 2012).

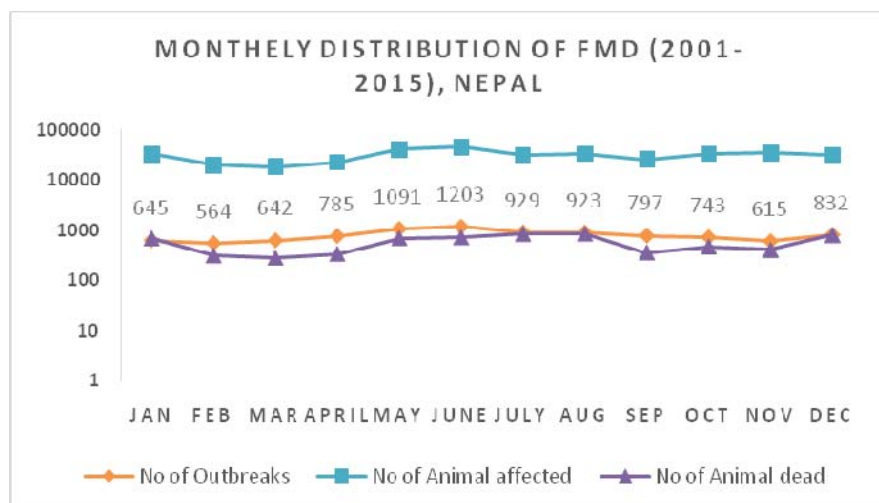


Figure 2: Monthly trend of FMD outbreaks Nepal(2001-2015).

2.3 Distribution of FMD by Eco-zones

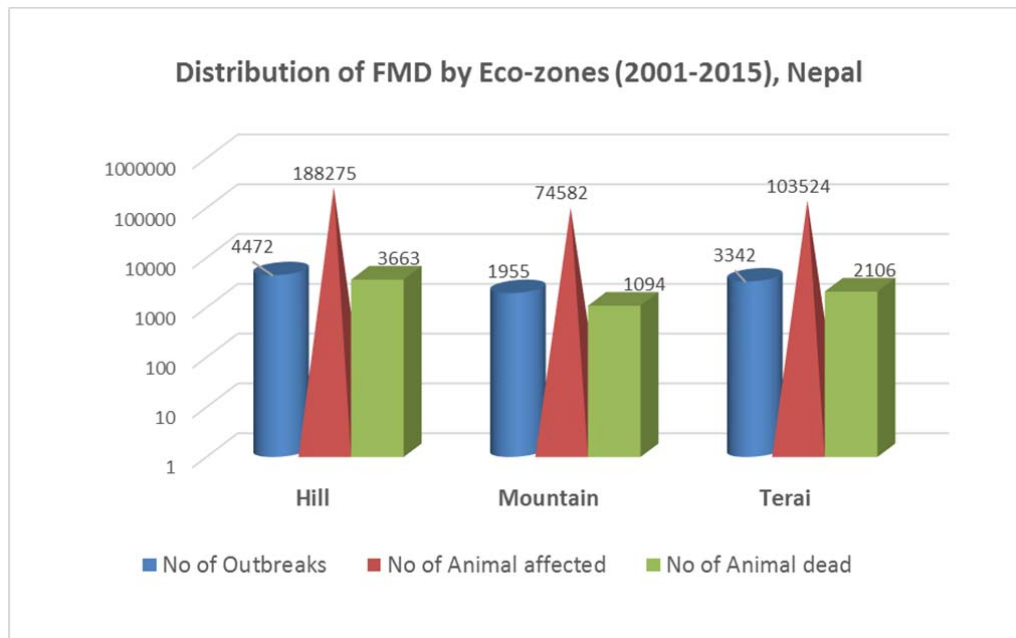


Figure 3: Distribution of FMD based on Eco-zones, Nepal (2001-2015).

Nepal consist of three Eco-zones, Terai, Hills and Mountain. Among 75 districts of Nepal, 16 districts are situated in mountain region, 39 in hilly region and 20 in terai region. The 15 year FMD outbreaks trend analysis showed highest no of FMD outbreaks in Hilly region followed by Terai (3342) and Mountain (1955). The highest no of outbreaks reported in hilly region could be due to higher ruminants' population in the region and more no of districts situated in the region. However, the number of outbreaks in hills and terai are comparable but are higher compared to mountain. The excessive movement of animals for trade during festival season from India or within Nepal as well as movement of animals for agricultural and farming purpose could be responsible for higher number of outbreaks in hills and terai region.

2.4 Distribution of FMD outbreaks by Development Region

There were total 9769 outbreaks between 2001 and 2015. Region-wise 2253, 1011, 2180, 2109 and 2216 FMD outbreaks are reported from Central, Eastern, Far-Western, Mid-western and Western Development Region respectively. The maximum no of FMD outbreaks is recorded from central development region because the proportion of livestock population is more in central development region and more commercial livestock farm are concentrated in this region. The lowest no of outbreak was from Eastern Development Region because the eastern part of the country is dairy pocket area of Nepal and the FMD control program of Nepal was also started from this region. Comparatively, most of the livestock farmers

keep improved or cross bred of animals and farmers are more aware of the disease consequences thus, vaccinate their animals against FMD resulting in to less numbers of outbreak in the eastern region.

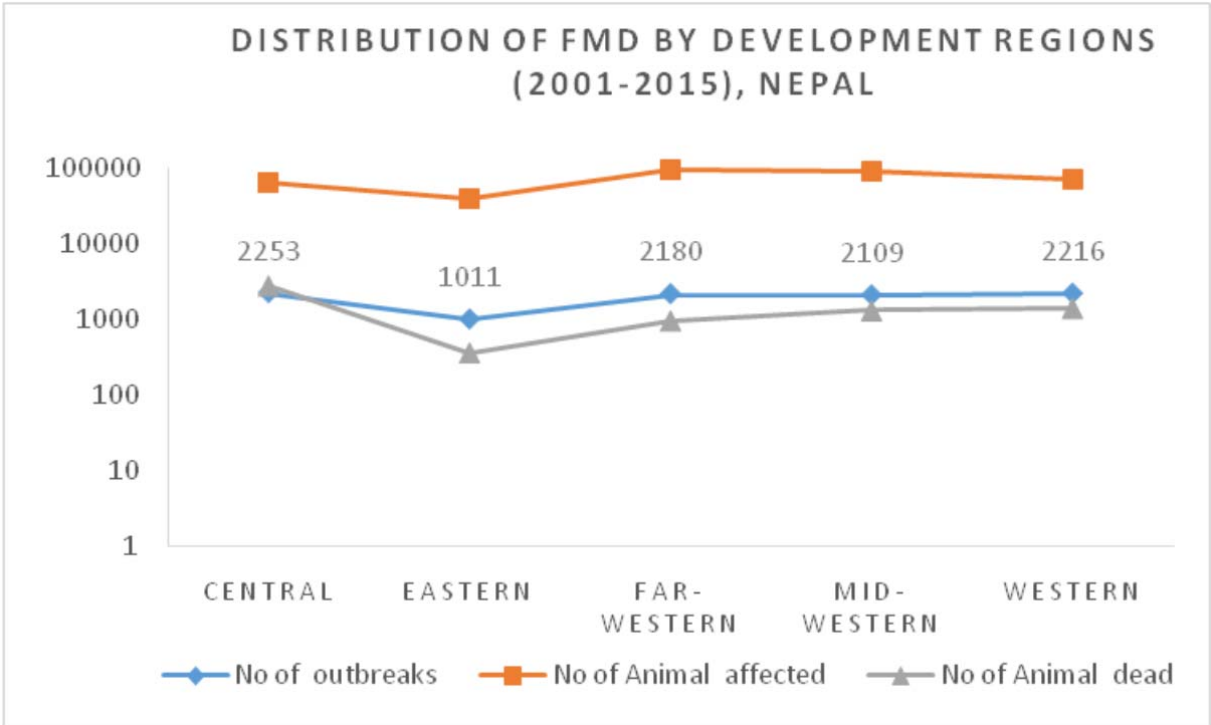


Figure 4: Distribution of FMD based on Development Region, Nepal (2001-2015).

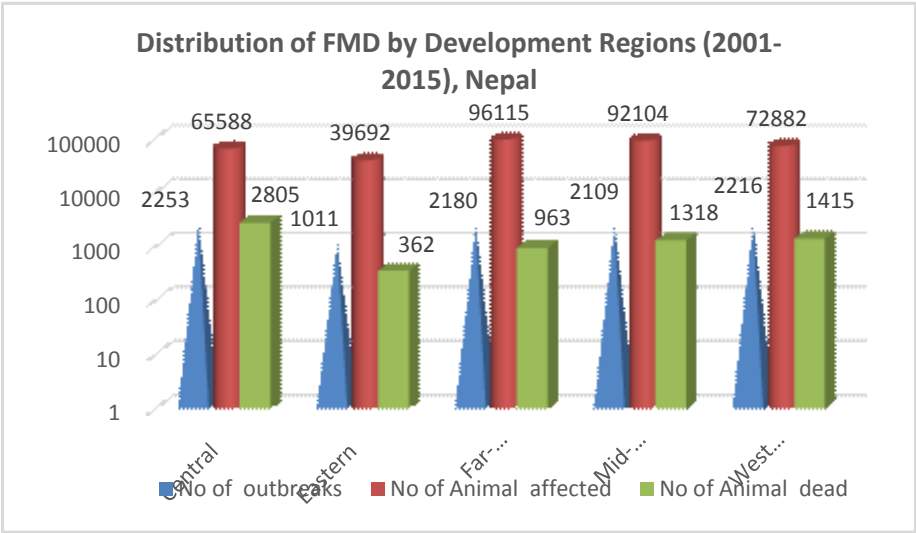


Figure 5: Distribution of FMD based on Development Region, Nepal (2001-2015).

2.5 Spatial Distribution of FMD outbreaks by Districts, Nepal (2001-2015)

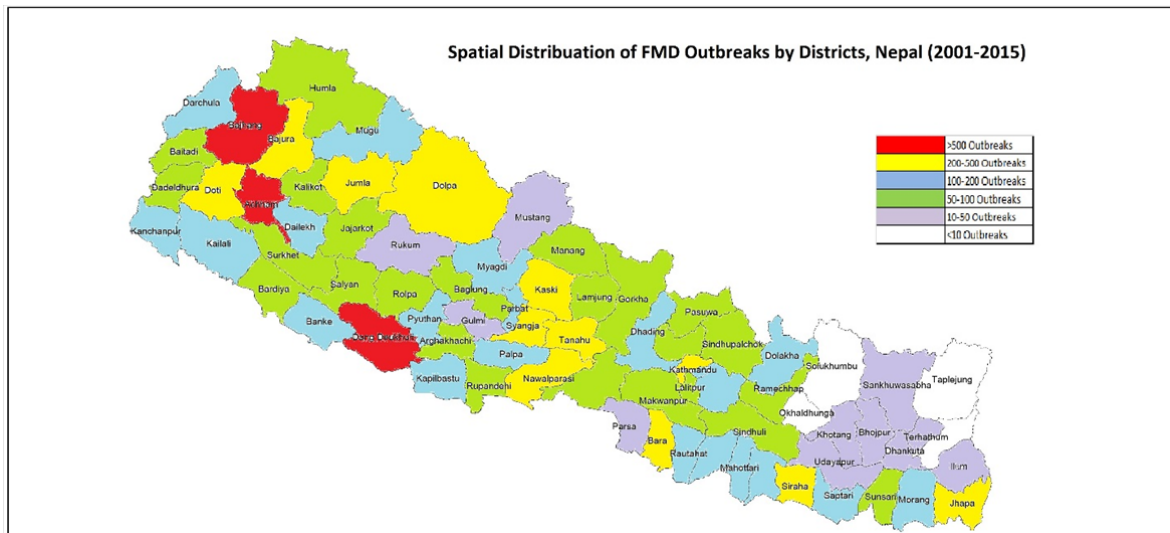


Figure 6: Spatial Distribution of FMD outbreaks by Districts, Nepal (2001-2015)

The outbreaks of FMD was reported from all 75 districts of Nepal between 2001-2015 with highest outbreaks (more than 500) from three districts Achham (672), Dang (542) and Bajhang (505). There are 12 districts with outbreaks between 201-500. Two districts Dolpa and Jumla with 213 and 217 outbreaks from mountain region. Four districts Nawalparasi (283), Bara (233), Siraha(254) and Jhapa(228) from Terai Region. Remaining six districts Kaski (286), Kathmandu (276), Doti (270), Syangja (254), Tanahu (246), and Bajura (224) from Hilly region. There are 21 districts with 100-200 outbreaks, 24 districts with 50-100 outbreaks and 11 districts with 10-50 outbreaks. Four districts Solukhumbu (7), Panchthar (6), Taplejung (6) and Okhaldhunga (5) are with lowest (<10) outbreaks as shown the Figure 6.

2.6 Species-wise FMD outbreaks, Nepal (2001-2015)

Species-wise distribution of number of FMD outbreaks, number of animal affected and dead is given in figure 7. It was found that (fig.7) cattle are most frequently affected animal species followed by buffalo, goats, sheep and pigs. The pattern of outbreaks, affected and dead animals in different species during 2001-2015 are as given in Figure (8-11). It clearly shows that trend of outbreaks, affected and dead is similar in cattle, buffalo, goats and pigs every year where as it looks different in sheep and yak. As, sheep and yak are mostly reared in mountain region where as cattle, buffalo, goats and pigs are mostly reared in hilly and terai region. So, the pattern of species-wise outbreaks might had followed eco-zones.

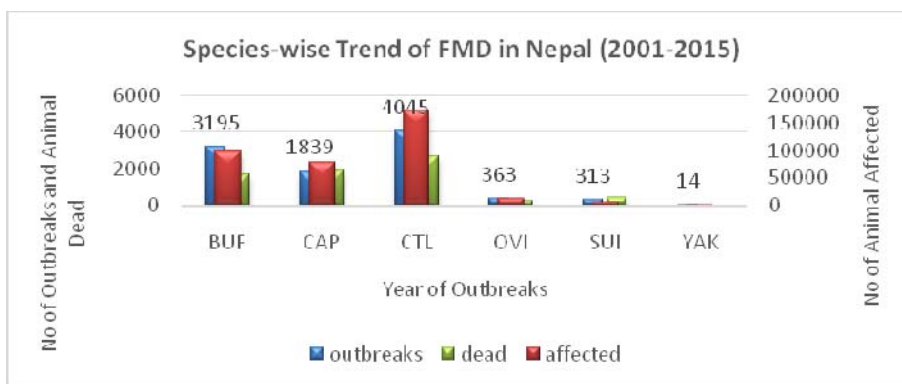


Figure 7: Species-wise Trend of FMD in Nepal (2001-2015)

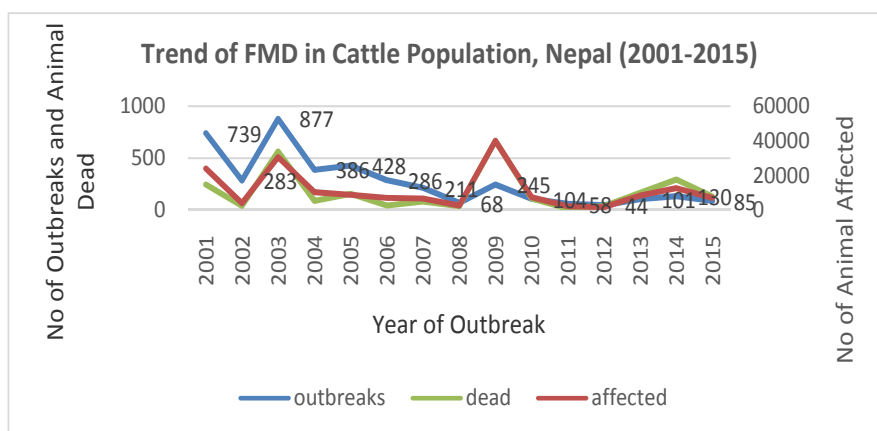


Figure 8: Trend of FMD in Cattle Population, Nepal (2001-2015)

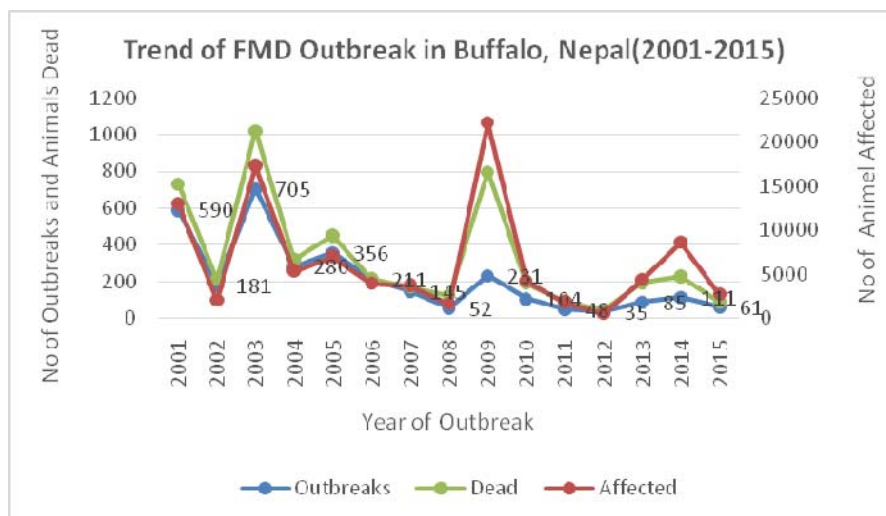


Figure 9: Trend of FMD Outbreak in Buffalo, Nepal (2001-2015)

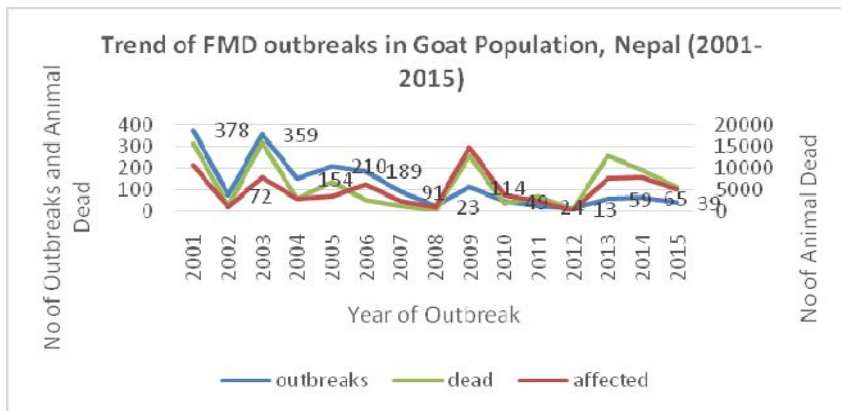


Figure 10: Trend of FMD outbreaks in Goat Population, Nepal (2001-2015)

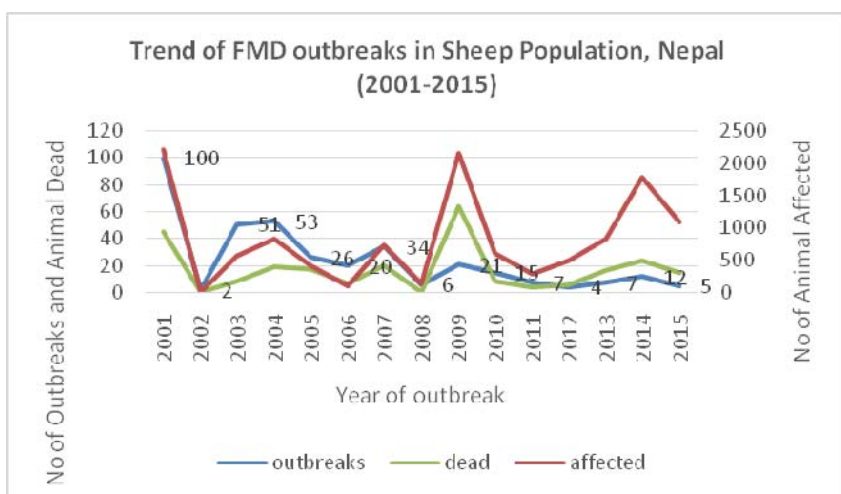


Figure 11: Trend of FMD Outbreak in Sheep Population, Nepal (2001-2015)

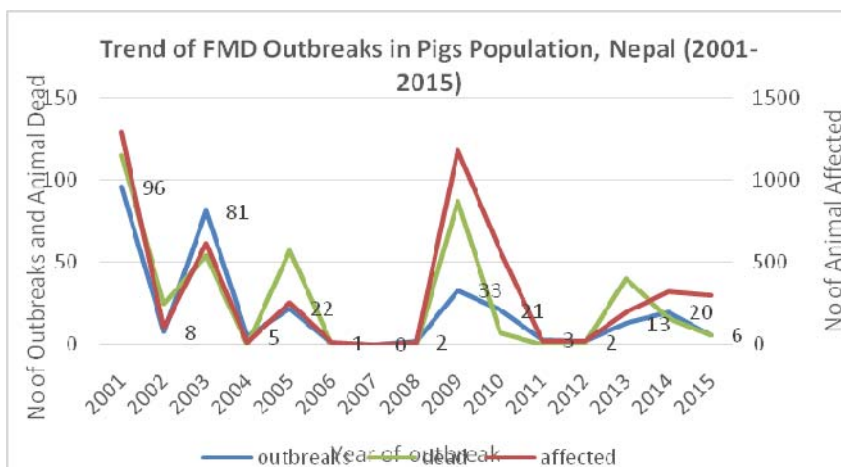


Figure 12: Trend of FMD Outbreak in Pigs Population, Nepal (2001-2015)

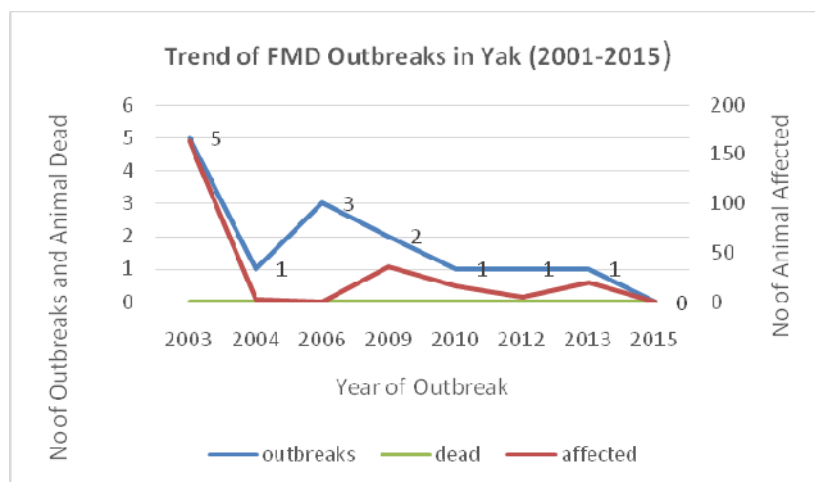


Figure 13: Trend of FMD Outbreak in Yak, Nepal (2001-2015)

Recommendation and conclusion

The old proverb that prevention is better than cure is very relevant when dealing with FMD. Import control, including quarantine, is the first line of defence against FMD. National FMD control strategy and Regional approach is the vital to control FMD. Therefore risk based strategic plan is the prerequisite for the control of FMD. The most important resource in the prevention of FMD (or any other livestock disease) is the informed animal owner or manager. Livestock owners at all levels of production, dealers and traders should be familiarized with the basic features of FMD, including recognizing the essential signs of the disease, the need for urgent action and how and where to seek help if they suspect the disease. This can only be achieved by intensive farmer training, using media that are easily understood, highly visual, and that serve as a constant reminder of the disease and its importance. Lines of communication must be established between livestock owners and the veterinary services, using local authorities and agricultural personnel as intermediaries when necessary, who should also be informed about FMD. It is after all the livestock farmers and/or herders who see their animals every day and, consequently, informed farmers and herders constitute the most important frontline surveillance resource for animal diseases.

Some of the districts have very few numbers of outbreaks. There is need to confirm whether it is due to underreporting or real situation. The best choice will be to look for Non structural Protein (NSP) in susceptible animal in those districts to prove the hypothesis.

Monitoring and evaluation of vaccination program is another aspect to focus on. The vaccination for two consecutive times per year in a susceptible animal is to be made mandatory with strict vigilance system.

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