



eofmd
european commission for the
control of foot-and-mouth disease

Oie

Progressive Control Pathway (PCP)

An Overview of FMD

PAKISTAN

Dr. Khurshid Ahmad
Animal Husbandry Commissioner /CVO



ECONOMIC IMPORTANCE OF LIVESTOCK SECTOR OF PAKISTAN (2010-11)

- Contributes 55.1% to the agriculture value added
- Share in National GDP is 11.2%
- Share in Total Foreign Exchange is more than 8.5%
- Nearly 30-35 million families are engaged in Livestock raising
- They are deriving 30-35% of their income from livestock production activities
- Value of livestock & its products (Rs.670.7 billion) is more than the combined value of major and minor agricultural crops (Rs.509.4 billion)
- Provides raw material to various industries like Dairy, Slaughtering, Leather, Carpet, Soap, Pharmaceutical, etc.

Livestock Products (Million Tons)

	2007-08	2008-09	2009-10	2010-11
Milk	34.06	35.16	36.30	37.48
Meat	2.73	2.84	2.97	3.10
Beef	1.55	1.60	1.66	1.71
Mutton	0.58	0.59	0.60	0.62
Poultry Meat	0.60	0.65	0.71	0.77

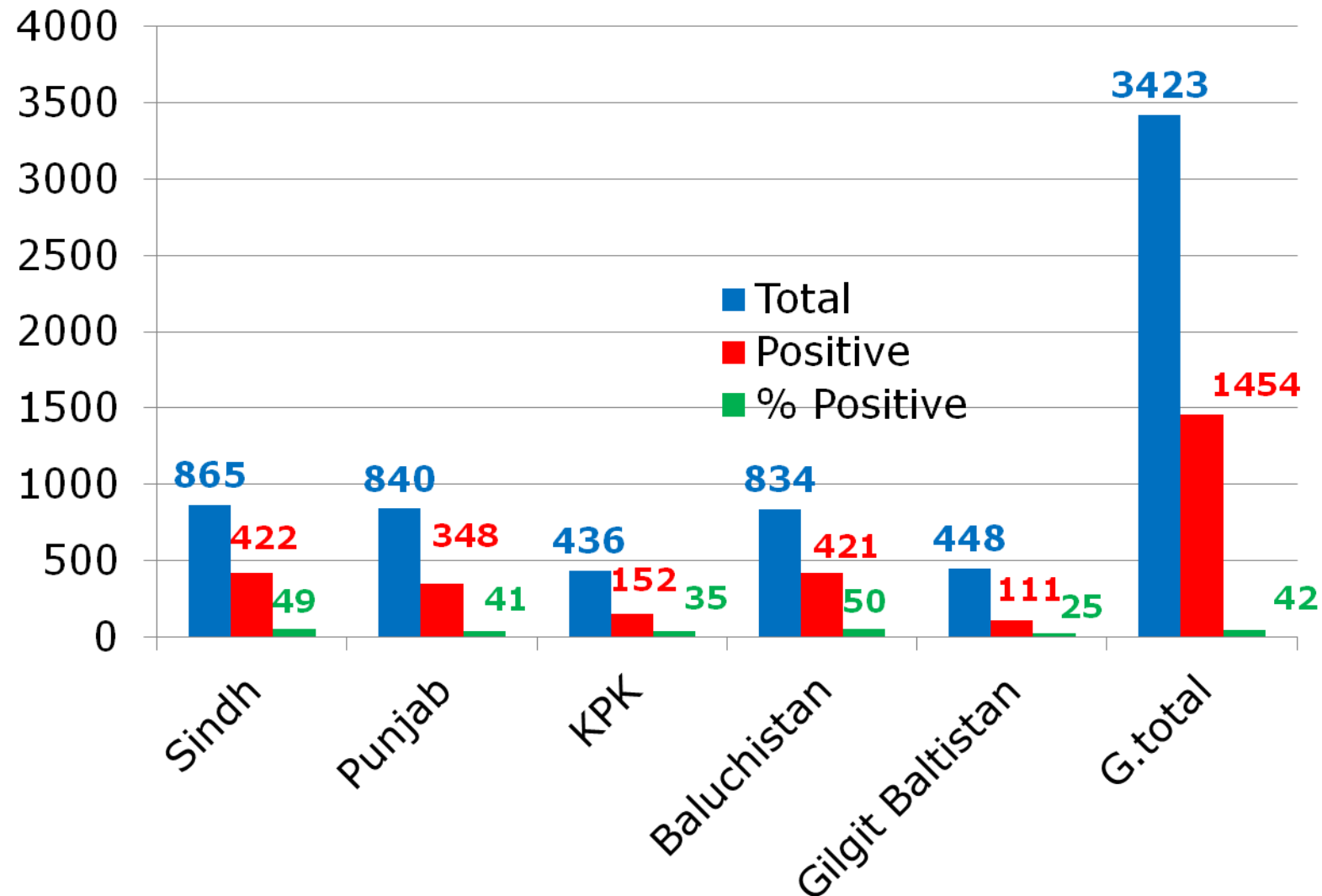
West EurAsia - Roadmap to 2020

West EurAsia	Country	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Country Name (Arabic)
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	
	Kazakh	Orange	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	كازاخستان
	Kyrgyz	Orange	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	قيرغيزستان
	Tajik	Red	Red	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	طاجيكستان
	Turkmen	Red	Red	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	ترکمانستان
	Uzbek	Red	Orange	Orange	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	اوزبکستان
	AFG	Red	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	افغانستان
	IRN	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	ايران
	PAK	Red	Orange	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	باكستان
	TURK	Orange	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	ترکيا
	Thrace	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	ثراسيا
	added zones	White	White	White	White	White	White	White	White	White	White	White	White	مناطق
	Syria	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	سوريا
	Iraq	Orange	Orange	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Yellow	Light Green	Light Green	العراق
	Armenia	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	ارمينيا
	Azerbaijan	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	اذربيجان
	Georgia	Yellow	Yellow	Yellow	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	جورجيا
	Countries	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	

Activities undertaken during 2011

- Joint efforts of Government of Pakistan and FAO projects
- Work done under FAO Regional Project (GTFS/INT/907/ITA) in line with PCP approach
- GTFS will be phasing out during 2011 but based on its good work another FAO project titled "Progressive Control of FMD in Pakistan", (GCP/PAK/123/USA) has initiated its field activities
- All the interventions are planned in conformity with PCP approach and it will accelerate the anticipated country progression on PCP
- The project has three components
 1. Strengthening laboratory capacity for FMD diagnosis
 2. Strengthening surveillance and response mechanism
 3. Demonstration of the benefits of early and consistent immunization against FMD

NSP serology (2011)



Sero-types and Sub-serotypes

Samples testing at National Veterinary Laboratories Islamabad (NVL)

- During 2010-11 a total of 204 tissue samples collected from suspected FMD cases were tested and serotypes detected were;
A,O and Asia 1

Samples sent to WRL for serotyping, sub-serotyping and vaccine matching

- During 2010-11 a total of 173 sample were sent to WRL
A,O, Asia 1 were the serotypes whereas sub serotypes included
A Iran 05 (AFG 08 and BAR 07), Pan Asia II (PUN 10 and ANT 10) and
an new strain (un named) of Asia 1
- These new strains poorly match with the currently available vaccinal strains and had been associated with most of the disease out breaks

Study on economic impact of FMD

- Jointly with FAO regional Project(GFTS) a study was undertaken to assess the immediate losses on lactating animals and to evaluate the cost benefit ratio of preventive vaccination.
- Results for the sampled population (50 house holds) indicated that total estimated milk loss due to one FMD episode to be equal to **33461.32 USD**
- Under the assumption of a cost per injection equivalent to 1.5 USD (vaccine and administration), the total amount needed for having the population in the sample covered is **3529 USD**
- The ratio between the estimated economic loss and the cost to prevent the disease is **9.48**
- **Hopefully this study will now be undertaken on country wide basis to convince the decision makers and donors for allocation of additional funding**

Words of Thanks

On behalf of Government of Pakistan I would like to acknowledge the support of GTFS/INT/907/ITA and GCP/PAK/123/USA (Italian and USA funded projects respectively)

I hope that in days to come we will continue to work together to ensure food safety and security