

## Survivability of Osmanabadi goat maintained at Farm condition in Vidarbha Climatic Condition

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### Abstract

Present investigation was carried out to study the survivability in Osmanbadi Goat maintained under farm condition. Result reveals the overall survivability rate of Osmanbadi goat was 68.87 %, whereas in adult and kids it was found to be 81.60 % and 47.16 % respectively. The chi square value was statically significant for effect of age on survivability.

**Keywords:** Survivability, Osmanbadi Goat , Farm, Climate.

### Introduction

Osmanabadi goat is natural habitat of Marathwada region of Maharashtra but found throughout the state,inspite of different agro climatic conditions of Marathwada and Vidarbha region (Motghare *et al.*,2004). Survibility is an important parameter for replacement of old stock but also important for production and profitability point of view.

### Materials and Methods

The present investigation was carried out on 280 osamanabadi goat maintained at Govt. unit, Nagpur Veterinary College, Nagpur for period of six years from 1999 to 2004. All the goats were kept under similar feeding and managerial practices followed by strict prophylactic vaccination schedule. The year wise data is arranged according to age and sex. The percentage analysis and X<sup>2</sup> test were applied as statistical tools (Snedecor and Cochran, 1994).

### Results and Discussion

The overall survival range was found 45.65 to 80.48 % during the year 1999 to 2004 with average survivable rate 68.57 %. The details of survivability of Osamanabadi goat are present in table no.1.

**Effect of age on survivability:** The survivability

percent in various years in kids found to be ranged between 25 to 62.5 % while in adult group 56.66 to 93.10 % with an average 47.16 and 81.60 % respectively in kid and adult age groups. The Chi square analysis revealed significant value. Which indicates that special managerial practices are required to improve the survivability of goat especially during kid stage.

**Year wise effect on survivability:** The year wise survivability rate ranged between 45.65 to 80.48% during year 1999 to 2004. The Chi square analysis reported to be 7.16 which is found to be statistically not significant and indicates that survivability rate in Osamanabadi goat did not vary with the year.

### References

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Table 1: The survivability of Osamanabadi goat

Year	Adult	Kid	Total	Survived			Survivability		
				Adult	Kid	Total	Adult	Kid	Total
1999	25	24	49	21	15	36	84.00	62.50	73.46
2000	28	23	51	25	10	35	89.28	43.47	68.62
2001	33	09	42	27	04	31	81.81	44.44	73.80
2002	29	22	51	25	11	36	86.20	50.00	70.80
2003	29	12	41	27	06	33	93.10	50.00	80.48
2004	30	16	46	17	04	21	56.66	25.00	45.65
Total	174	106	280	142	50	192	81.60	47.16	68.57

Chi Square value (X<sup>2</sup>): Year:18.05; Age:7.16

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