LIVESTOCK MANAGEMENT PRACTICES:
SOCIOECONOMIC IMPACTS IN BALOCHISTAN

Dr Abdul Rehman
Senior Veterinary Officer
Livestock and Dairy Development Department
Quetta - Pakistan
ziaratremman@yahoo.com

Dr Arslan Maqbool
Veterinary Officer
Livestock and Dairy Development Department
Quetta - Pakistan
arslammaqbool81@gmail.com

Dr Abdul Sattar
Senior Veterinary Officer
Livestock and Dairy Development Department
Quetta - Pakistan
sattar_baloch40@yahoo.com

ABSTRACT

This research was conducted into two districts of Balochistan such as Lasbela and Loralai so as to determine the livestock management practices within terms of socioeconomic acceleration. A descriptive design was applied so that it obtained the views of livestock farmers. Three hundred livestock farmers randomly selected, 150 from each district. A closed-ended questionnaire was developed. Non-parametric test was used. Results show that Most (34%) of livestock farmers age ranged into the 31 to 40 years. Half 50% of the livestock farmers were illiterate and did not get their education from any formal institution. Vast majority 77% of the livestock respondents were male by gender. Non-significant relationships between the variables were found regarding socio-economic impacts based on $(p < .05)$ alpha level. It was recommended that the latest technologies related to the livestock sector must be prompted at province level. So as to improve the livelihood options of the respondent’s adequate
subsidy rate of animal fodders, animal medicines, animal shelters provided to the livestock farmers by the government. For the department adequate incentives should be given to the staff so that to increase the competency level of livestock department staff. Furthermore, the government should provide livestock farmers satisfactory information so as to give livestock farmers fair share in consumer prices and legitimate trade practices adopted. Livestock extension services in this regard disseminated modern animal husbandry practices to the livestock farmers.

**Keywords**: Management practices, Livestock sector, Socio-economic impacts, Selected districts, Balochistan.

1.1 Overview

Livestock is a major pillar of rural development in Pakistan. Livestock sector is the major source for foodstuff and contributes to the country's GDP. Vast majority of the rural poor directly or indirectly depend on this sector for his/her socio-economic enchantment. Consequently, livestock are major food drivers and food sources for rural people (ADB, 1989; and ADB, 1987).

On the other hand, this sector is one of the foremost fonts for the elimination of rural poverty. Due to its potential and prospective this sector has a major factor to cash income for the powerless people in rural areas. At country level this sector delivers equally compost manure as well as draught power for farming. However, this sector also provides the animal dung for domestic cooking in rural areas as a major heat source also. On the other hand, this sector provides milk or dairy products for human intake (Asian Development Bank, 2004).

Understanding of expected socioeconomic impacts in this regard has usually been constrained through aspiring, like top-down style in livestock sector, nonexistence emphasis on livestock ownership, interruptions in various livestock project initiation; poor animal health condition, less production, ineffective livestock extension activities and very poor performance of this sector. However, these limiting factors reflected the negative impact in the livestock sector at a greater extent (Asian Development Bank, 2004).

Livestock sector at the country level was faced with severe challenges, these obstacles limited the role of this sector. In this regard, the effective linkage among livestock production and other related factors were strengthened. Therefore, it was observed that the livestock sector is one of the most suitable drivers for food security as well as eliminating
rural poverty. These livestock management practices have significantly impacted the socio-economic condition of the rural masses (Asian Development Bank, 2004).

In the Pakistani economy, livestock plays a noteworthy role after the agricultural sector. The livestock sector is the foremost segment for the rural economy and identifies the positive socio-economic impacts and major contributors after the agriculture sector. Majority of rural people and their livelihood option related to this sector (Simon, 1980).

Dairy products on the other hand, has major business in rural areas and rural communities in this regard, sustainable rural development based on the livestock sector. So the federal government developed a well mechanism to export the dairy product so that it could boost the rural community’s income. However, the livestock sector in the developing countries is the fastest-growing sub-sectors in this context. However, the livestock sector is to fulfill the daily diet of rapid urban development. In Pakistan the red meat consumption pattern has increased rapidly (Delgado, 2005; and Meadowcroft, 2009).

Livestock sector it was estimated that there more than thirty-five million people engaged as a labor force. More potential of the livestock animals is existing in Sindh and Punjab in the period of 2020. It was also estimated that 78.2 million of goats, 49.6 million of cattle, 41.2 million of buffaloes and 30.9 million sheep existed in Pakistan in the period of the 2020 as shown in figure-1 (Siddiqi, 1977; Encyclopedia of the Nations, 2011; and Wasim, 2020).

Figure-1, Total population of livestock animals in Pakistan, 2020.
The wool is obtained from the livestock animals. However, Pakistan exports huge quantities of wool from the different countries. The Sahiwal Breed and Red Sindhi cattle were the major breeds among the livestock animals. Therefore, milk and dairy production is widely used and obtained from these breeds. On the other hand, the animal dung is the major source for fuel and also used for soil fertilizers. Pakistan has the huge potential for the livestock sector. But unfortunately due to the poor planning, the livestock sector abandoned as a result the socio-economic condition of the rural farmers did not improve (Siddiqi, 1977; Encyclopedia of the Nations, 2011; and Wasim, 2020).

1.2 Problem statement
Balochistan is the biggest province of the country. Livestock and agriculture are the major occupations of the rural communities. Both sectors at the province level have huge potential. But due to the poor practices in the livestock sector the socio-economic condition of the rural masses did not improve. Keeping in view the importance of the livestock sector and livestock sector management practices as a major determinant in terms of socioeconomic impacts this research was carried out in Balochistan.

1.3 Objectives

1. To determine the biographic condition of the livestock farmers.
2. To find out the management practices as used by the livestock farmers for socio-economic improvement in study areas.
3. To develop result-based recommendations for policy makers regarding the livestock sector development and their socioeconomic impacts.

1.4 Methodology
A descriptive design was applied so that it obtained the views of livestock farmers (Levin, 1979; Miller, 1977; and Phillips, 1971). In this regard, two districts of Balochistan like Lasbela and Loralai were selected randomly (Ackoff, 1961; Allen, 1978; Barzun & Graff, 1990; Best & Kahn, 986). Three hundred livestock farmers selected in order to determine the livestock management practices within terms of socioeconomic impacts in Balochistan by using the random sampling (Bhattacharya, 1972; Burgess, 1960; and Chaturvedi, 1970). A questionnaire (closed-ended) in this regard was developed (Clover & Balsley, 1984; Cochran, 1963; and Deming, 1980). Krejcie and Morgan (1970) table “sample size from a given population” were determined, .71 to .78 the range of Cronbach Alpha program. In this research the biographic information as independent variables and dependent variables as the general information (Sadhu & Amarjit, 1990; and Sharma, 1998). Raw information
was put into the SPSS. Non-parametric tests were used (Yamane, 1973 and Young, 1960). P-value set on five alpha levels by using the Pearson Chi-square test (Siegel, 1970; and Tondon, 1989).

1.5 Study findings

Biographic profile was the imperative aspect of this research. In this regard the raw data was gathered at field level so as to determine the livestock management practices within socioeconomic impacts at province level.

Age of the livestock farmers were the major demographic attribution. In this regard the data was gathered at field level so as to determine the perception of the respondents (figure-2). Most (34%) of livestock farmers' age ranged into the 31 to 40 years. Whereas 23-21% of livestock farmers age ranged into the 41 to 50 and 21 to 30 years’ categories respectively. On the other hand, only 12-10% of livestock farmers' ages ranged up to 20 and 51 above respectively.
Figure-3, Respondents educational position

Education of the respondents in this regard as the major contributing demographic information. In this regard the facts and figures were gathered at field level from the livestock respondents so as to measure their perceived perception about their educational level as shown in figure-3. Half 50% of the livestock farmers were illiterate and did not get their education from any formal institution. Whereas 20-18% of the farmers or respondents having the Matriculation or Intermediate level of education respectively. While only 6-4% of the respondents were having B.Sc. and others like religious level of education respectively.

Figure-4, Respondents gender status
When asked about the respondent’s gender composition by using the comprehensive questionnaire, the vast majority 77% of the livestock respondents were of the view that by gender they were male. The remaining 23% of the respondents were by gender female. However, the female was contributing a huge contribution to the livestock sector in this regard.

**Table-1, Socioeconomic impacts perceived score**

<table>
<thead>
<tr>
<th>Livestock management practices</th>
<th>Value</th>
<th>df</th>
<th>Asymp: Sig. (2-sided)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Livestock socioeconomic impacts in district Lasbela</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pearson Chi-Square</td>
<td>14.374</td>
<td>4</td>
<td>.006NA</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>14.832</td>
<td>4</td>
<td>.005</td>
</tr>
<tr>
<td>Linear-by-Linear Association</td>
<td>6.817</td>
<td>1</td>
<td>.009</td>
</tr>
<tr>
<td>Phi</td>
<td>.219</td>
<td></td>
<td>.006</td>
</tr>
<tr>
<td>Cramer's V</td>
<td>.219</td>
<td></td>
<td>.006</td>
</tr>
<tr>
<td>Livestock socioeconomic impacts in district Loralai</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pearson Chi-Square</td>
<td>3.529</td>
<td>4</td>
<td>.474NA</td>
</tr>
<tr>
<td>Likelihood Ratio</td>
<td>3.562</td>
<td>4</td>
<td>.468</td>
</tr>
<tr>
<td>Linear-by-Linear Association</td>
<td>.046</td>
<td>1</td>
<td>.830</td>
</tr>
<tr>
<td>Phi</td>
<td>.108</td>
<td></td>
<td>.474</td>
</tr>
<tr>
<td>Cramer's V</td>
<td>.108</td>
<td></td>
<td>.474</td>
</tr>
</tbody>
</table>

Socioeconomic impacts in this was the major dependent variable. In this context, the raw information was gathered at field level as shown in table-1 based on (p ≤0.05) probability level. Chi-Square technique results revealed that there was statistically non-significant direction observed in both respected districts. Non-significant discrepancies were observed in both study districts. Though, results of Chi-Square values were non- significant in Lasbela district: (Chi-Square=14.374a), (Likelihood Ratio=14.832) and (Linear-by-Linear Association=6.817) receptively at (p ≤0.05) level. On the other hand, district Loralai: (Chi-Square=3.529a), (Likelihood Ratio=3.562) and (Linear-by-Linear Association=.046) was
found non-significant. Non-significant relationships between the variables were found regarding socio-economic impacts based on \((p < .05)\) alpha level.

1.6 Summary and recommendations for policy implication

This effort was examining the livestock management practices within terms of socio-economic impacts in selected districts of Balochistan region so as to determine the technology importance in livestock sector at province level. In this aspect, livestock trends must be kept in the scientific line so as to improve the socio-economic condition of the rural farmers. Latest technologies related to the livestock sector must be prompted at province level. So as to improve the livelihood options of the respondent’s adequate subsidy rate of animal fodders, animal medicines, animal shelters provided to the livestock farmers by the government. For the department adequate incentives should be given to the staff so that to increase the competency level of livestock department staff. Furthermore, the government should provide livestock farmers satisfactory information so as to give livestock farmers fair share in consumer prices and legitimate trade practices adopted. Livestock extension services in this regard disseminated modern animal husbandry practices to the livestock farmers.
REFERENCES


