**TABLE OF CONTENTS**

**Page**

|  |  |  |
| --- | --- | --- |
| **ABSTRACT** |  |  |
| **TABLE OF CONTENTS** |  | i-vi |
| **ACKNOWLEDGEMENT** |  | vii |
| **CHAPTER ONE** | **INTRODUCTION** | 1-2 |
| **CHAPTER TWO** | **REVIEW OF LITERATURE** | 3-10 |
|  | 2.1 Housing of swine | 3 |
|  | 2.2 Feeding system | 4 |
|  | 2.3 Breeding system | 7 |
|  | 2.4 Weaning and lactating | 8 |
|  | 2.5 Vaccination | 9 |
|  | 2.6 Deworming | 10 |
| **CHAPTER THREE** | **MATERIALS AND METHODS** | 11-12 |
|  | 3.1 Selection of study area | 11 |
|  | 3.2 Duration of work | 11 |
|  | 3.3 Sources of information | 11 |
|  | 3.4 Methods of data collection | 11 |
|  | 3.4.1 Preparation of questionnaire | 11 |
|  | 3.4.2 Interviewing the pig owner | 12 |
|  | 3.5 De-worming | 12 |
|  | 3.6 Analytical technique | 12 |
| **CHAPTER FOUR** | **RESULTS AND DISCUSSION** | 13-25 |
|  | 4.1 Socio-economic status of the pig owners | 13 |
|  | 4.1.1 Literacy level of the pig owners | 13 |
|  | 4.1.2 Land holding size of the pig owners | 14 |
|  | 4.1.3 People involved in pig rearing under backyard farming | 15 |
|  | 4.2 Structure of the pig distribution in the study area | 15 |
|  | 4.3 Housing system of pigs under backyard farming | 17 |
|  | 4.3.1 Orientation of buildings | 17 |
|  | 4.3.2 Measurement of the sheds | 18 |
|  | 4.3.3 Space for the pig house | 18 |
|  | 4.3.4 Shape of roof and roof exhausts | 18 |
|  | 4.3.5 Housing construction | 18 |
|  | 4.3.6 Cleaning and disinfection procedures | 19 |
|  | 4.3.7 Insect control | 19 |
|  | 4.4 Temperature management | 19 |
|  | 4.4.1 Keeping warm | 19 |
|  | 4.4.2 Keeping dry | 19 |
|  | 4.4.3 Keeping cool | 19 |
|  | 4.4.4 Ventilation and insulation | 19 |
|  | 4.5 Feeding and watering system | 20 |
|  | 4.5.1 Feeding system | 20 |
|  | 4.5.2 Watering system | 20 |
|  | 4.6 Breeding system | 21 |
|  | 4.6.1 Signs of approaching heat | 21 |
|  | 4.6.2 Boar-sow mating ratio | 21 |
|  | 4.6.3 Breeding habit | 21 |
|  | 4.6.4 Signs of approaching farrowing | 21 |
|  | 4.6.5 Production performance | 22 |
|  | 4.7 Care of new born piglets  4.8 Prevalence of common diseases and health problems | 23  24 |
|  | 4.9Vaccination system | 24 |
|  | 4.10 Bio-security management | 25 |
|  | 4.11 Treatment of disease | 25 |
|  | 4.12 Marketing system | 26 |
| **CHAPTER FIVE** | **Limitation** | 28-30 |
|  | 5.1 Major limitations of pig production | 28 |
|  |  | 28 |
|  | 5.1.1 Shortage of feed and proper nutrition | 28 |
|  | 5.1.2 High feed cost of livestock | 28 |
|  | 5.1.3 Low quality feed | 28 |
|  | 5.1.4 Low grade pigs | 29 |
|  | 5.1.5 Mortality during delivery | 29 |
|  | 5.1.6 Unavailability of wallowing ponds | 29 |
|  | 5.1.7 Lack of proper vaccination | 29 |
|  | 5.1.8 Lack of well established diagnosis laboratory | 29 |
|  | 5.1.9 Lack of post mortem facilities | 29 |
|  | 5.1.10 Lack of proper bio-security knowledge | 29 |
|  | 5.1.11 High cost of livestock drugs | 29 |
|  | 5.1.12 Lack of knowledge about pig rearing | 29 |
|  | 5.1.13 Public nuisance and annoyance | 30 |
| **CHAPTER SIX** | 5.1.14 Lack of established pork marketing system  **RECOMMENDATIONS** | 30  31 |
| **CHAPTER SEVEN** | **CONCLUSION** | 32 |
| **CHAPTER EIGHT** | **REFERENCES** | 33-36 |

**List of the Tables**

|  |  |  |
| --- | --- | --- |
| **Table No.** | **Title** | **Page no.** |
| **3.5.1** | Program for de-worming the growing/finishing pigs | **12** |
| **4.1.1.1** | Literacy percentage of the pig owners | **13** |
| **4.1.2.1** | Category of the pig owners | **14** |
| **4.1.3.1** | Involvement of farmers in backyard pig rearing according to age | **15** |
| **4.2.1** | Present population of the Rangamati pig farm | **15** |
| **4.2.2** | Different categories of pigs reared in the households | **16** |
| **4.2.3** | Breeds of pig reared in backyard farming system | **16** |
| **4.3.1** | Rearing system of pigs in backyard farming | **17** |
| **4.3.3.1** | Space requirement for swine | **18** |
| **4.3.3.2** | Space requirement for trough | **18** |
| **4.5.1.1** | Ration for pig in Rangamati pig farm | **20** |
| **4.5.1.2** | Daily feed supplied for different categories of pig | **20** |
| **4.6.5.1** | Productive performance of sows under backyard farming | **22** |
| **4.6.5.2** | Productive performance of sows in Rangamati pig farm | **23** |
| **4.8.1** | Diseases prevalence in Rangamati pig farm | **24** |
| **4.11.1.1** | Treatment of the diseases that were usually found in Rangamati pig farm | **25** |
| **4.12.1** | Target products for marketing under backyard farming | **26** |

**List of the Graphs**

|  |  |  |
| --- | --- | --- |
| **Graph No.** | **Title** | **Page no.** |
| **4.1.1** | Literacy level of the pig owners | **13** |
| **4.1.2.1** | Land holding size of pig owners | **14** |
| **4.2.1** | Present population of pigs in Rangamati pig farm | **16** |
| **4.2.2** | Different categories of pigs reared in the households | **16** |
| **4.2.3** | Breeds of pigs reared in backyard farming | **17** |
| **4.3.1** | Rearing system in backyard farming | **17** |
| **4.6.5.1** | Average litter size of sows in backyard farming | **23** |
| **4.6.5.2** | Average litter size of sows of Rangamati pig farm | **23** |
| **4.8.1** | Prevalence of disease | **24** |