**STUDY ON NUTRITIONAL ASSESSMENT OF FRESH SAWDUST OF DIFFERENT WOOD TREES**

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**A production report submitted by**

**Intern ID: E-47**

**Roll No: 07/51**

 **Registration No: 338**

**Session: 2006-2007**

**This report is submitted for partial fulfillment of the Degree of**

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**Chittagong veterinary & Animal Sciences University**

**Khulshi, Chittagong-4202.**

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# *Approved as to style and content by*

………………………………

**Signature of Supervisor**

**Name: Md. Manirul Islam**

**Designation: Associate Professor**

**Dept. of Animal Science and Nutrition**

**Chittagong Veterinary and Animal Sciences University.**

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**The Author**

i

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**ABSTRACT**

The present study was undertaken to observe the chemical composition of different types of sawdust available in Rangamati, Chittagong, Bangladesh. Fifteen different types of sawdust of different plants were collected from study areas. Chemical analyses of the samples were carried out in triplicate for moisture, dry matter (DM), crude protein (CP), crude fiber (CF), nitrogen free extracts (NFE), ether extracts (EE) and total ash in the animal nutrition laboratory, Chittagong Veterinary and Animal Sciences University, Chittagong, Bangladesh. Results indicated that, there was no significant variations (P>0.05) of crude protein and ether extracts of the samples. However, Moisture, dry matter, total ash and nitrogen free extracts content significantly differed (P<0.01) from one sample to another. Moisture content varied from 10 to 42 g/100g, dry matter content varied from 58 to 90g/100g, crude protein content varied from 0.70 to 1.75 g/100g, crude fiber content varied from 32.22 to 66.68 g/100g, ether extract content varied from 0.01 to 3.46 g/100g, nitrogen free extracts content varied from 11.72 to 36.62 g/100g and total ash content varied from 0.50 to 7.46 g/100g . It could therefore, be inferred that, sawdust currently available in the local market are widely variable in terms of their quality.

**Key words:** Sawdust, chemical composition and nutritional assessment.

ii

**CONTENTS**

|  |  |  |  |
| --- | --- | --- | --- |
| **Serial No.** | **Chapter** | **Subjects** | **Page No.** |
| 1 |  | Acknowledgment | i |
| 2 |  | Abstract | ii |
| 3 | I | Introduction | 1 - 2 |
| 4 | II | Review of Literature | 3 - 7 |
| 5 | III | Materials and Methods | 8 - 11 |
| 6 | IV | Result and Discussion | 12 - 15 |
| 7 | V | Conclusion | 16 |
| 8 | VI | References | 17 - 19 |

**List of Tables**

|  |  |  |
| --- | --- | --- |
| **Serial No.** | **Name** | **Page No.** |
| 01 | Chemical composition of individual Sawdust | 12 |
| 02 | Mean Chemical composition of different types of sawdust | 13 |

**List of Figures**

|  |  |  |
| --- | --- | --- |
| **Serial No.** | **Name** | **Page No.** |
| 01 |  Sample collection  | 10 |
| 02 |  DM estimation  | 10 |
| 03 |  Ash estimation (Burning the sample)  | 10 |
| 04 |  Ignition of sample for Ash estimation  | 10 |
| 05 |  CP estimation (Digestion)  | 10 |
| 06 |  CP estimation (Distillation) | 10 |
| 07 |  CP estimation (Titration)  | 11 |
|  08 |  EE estimation sample taking  | 11 |
| 09 |  EE estimation  | 11 |
| 10 |  Solution for CF estimation  | 11 |
| 11 |  CF estimation  | 11 |
| 12 |  CF estimation by manual  | 11 |
| 13 | Diagrammatic presentation of Nutritive value of sawdust.  | 13 |