

Abstract

This study was conducted to assess the nutrition value of the leaves, beet roots and whole plant silage fodder beet and it was done. Therefore fodder beet farms in the city Torbat-e Heydari in January 2013 harvest and to assess the nutrition value, was chopped into pieces of 1 to 2 cm. After determining of moisture content, the dried samples, the next step for the treatment of chopped for silage silo and given the proper moisture silage (65%) were mixed with wheat straw. Then silo its and then plastic silos were opened after 45 days. Chemical compounds consisting of DM, OM, ASH, CP, EE, NDF and ADF were measured according to standard methods. Organic matter digestibility and metabolizable energy produced by gas production method and degradability dry mater by nylon bag and for determination palatability, using method cafeteria. results in a completely randomized design (6 treatments and 3 replications) were analyzed with SAS software. The results showed that the amount of crude protein in the treated leaves and a greater amount of ADF and NDF in the treated silage (0/05> P). The volume of gas produced, organic matter digestibility, and energy metabolism in the rumen more root treatment(0/05> P). also roots of fodder beet have greatest value of dry matter degradability and palatability against other treatments (0/05> P). results showed that the best performance will be achieved when the whole plant fodder beet used complete Fodder beet silage through palatability and nutritional value was the best method for consume .

Key words: Fodder beet- Degradability dry matter- Gasproduction- Digestibility- Palatability



University of Zabol
Graduate School
Faculty of Agriculture
Department of Animal Science

**The Thesis Submitted for the Degree of Master of Science
(In the Field of Animal Nutrition Science)**

Title
**Study of nutritive value of leave, root
and total plant of fodder beet and its
silage**

Supervisor:
Dr.Gh. Jalilvand

Advisors:
Dr.M.Yousef Elahi
Dr.K. Shojaeian

By:
A.A.Rostami

June 2014