The TMR formulation calculator and nutrition assessment system for goats [1]

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Abstract

The purpose of this study was to provide an online TMR formulation calculator and to practice assessment the diet whether to meet the goat's nutrition requirement. The system based on nutrient requirement of the goats (NRC, 2007) and used Microsoft Visual Studio 2010 C# as programming language. The program platform covers two systems including TMR formulation calculator and nutrition assessment for goats. TMR formulation calculator system offers a method of linear programming module that farmers could just selected feed ingredients to calculate the least cost feed formulation and actual usages. The nutrition assessment system is with the actual goat's forage and concentrate quantities to reverser whether meet nutrient requirements of goats. This system could evaluate goat nutrient condition on individual or flock, furthermore as a reference to improve goat nutrition. The website of this system is on http://goatreg.tlri.gov.tw/TMR/LoginTMR.aspx.

Key words: Goat, Linear Programming, Nutrition assessment system, TMR.

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