

Statistical analysis for corn production between years 1962 and 2010

Rafaela da Silva Gomes¹, Vitória Régia Lopes dos Santos², Luciene Resende Gonçalves³

Abstract: In this paper we perform a multiple linear regression analysis to test the influence of 3 independent variables on Brazilian corn production. With a reliability of 10%, the "annual corn grain price" and "Brazilian GDP" variables presented a positive coefficient with the p-value of the t test, respectively given by, 0.0755 and <0.0001. The "annual IGP-DI" variable presented a negative coefficient (p-value of the of 0.0632).

Keywords: Corn; Linear regression; statistic; price; production.

¹ UNIFAL, ICSA, Discente. email: *rafadasilva43@yahoo.com.br*.

² UNIFAL, ICSA, Docente. email: *vitória.regia83@yahoo.com.br*.

³ UNIFAL, ICSA, Discente. email: *luliresende.lr@gmail.com*.