

Medicina Veterinária

## **Description of Equidae movement in Minas Gerais from 2016 to 2022**

Yasmim Domingos da Silva - Graduanda do 7º período de Medicina Veterinária – FZMV – UFLA

Anna Cecília Trolesi Reis Borges Costa - Pós-doutoranda – DMV – UFLA

Denis Lúcio Cardoso - Instituto Mineiro de Agropecuária – Lavras

Elaine Maria Seles Dorneles - Docente – DMV – UFLA - Orientador(a)

### **Resumo**

According to the IBGE (Instituto Brasileiro de Geografia e Estatística), Minas Gerais had the largest herd of equids in Brazil in 2022, contributing significantly to the economy of both the state and the country. The aim of this study was to analyze the movements of Equidae (equine, asinine and hinnies) acquired from Guia de Trânsito Animal (GTA) of Instituto Mineiro de Agropecuária (IMA), in Minas Gerais, from 2016 to 2022. Therewith, the descriptive analysis of Equidae movement was conducted revealing a median of 74,277 animals transported per year (IQR: 25,278.50) and a mean of 81,984 (SD: 28,686.92). The number of GTA issued had a median of 26,117 (IQR: 8,366) and a mean of 29,250 (SD:10,636.12). The year 2022 saw the highest number of GTA issued (49,050 GTA), while 2020 had the fewest (17,797). Similarly, 2022 was the year with the most Equidae transported (132,397), and 2020 had the least (47,014). The Belo Horizonte Metropolitan Region was primary origin and destination for GTA and animals transported across all seven years. Additionally, eleven reasons for transportation were identified: noncommercial agglomeration, commercial agglomeration, reproduction, return from agglomeration, return to origin, rearing, labor, veterinary treatment, veterinary consultation, slaughter, and others. From 2016 to 2019 and in 2022, the three most common reasons for transportation, in terms of GTA issuance and number of animals transported, were noncommercial agglomeration, return to origin and return from agglomeration. In 2020, the leading reasons noncommercial agglomeration, reproduction and return to origin. In 2021, noncommercial agglomeration, return to origin, and reproduction accounted for the most animals moved, with noncommercial agglomeration, reproduction and return to origin being the reasons with most GTA issued. Complementarily, from 2016 to 2021, the reason with the fewest animals moved per year was veterinary consultation, and in 2022 it was veterinary treatment. The reason with fewest GTA issued was veterinary consultation in 2016, slaughter from 2017 to 2021, and veterinary treatment in 2022. Therefore, it was observed that reasons for transportation remained consistent over the years, with decline in the number of GTA and animals transported in 2020, followed by rapid recovery in 2022, making it the year with the most movements in the entire analyzed period.

Palavras-Chave: equids, epidemiology,, surveillance.

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Link do pitch: <https://youtu.be/U0bVQpObtAE>