

A worldwide time series of human and animal muscle work, 1800–2015

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Abstract

**** Abstract goes here. ****

Keywords: muscle work, useful work, draft animals, human labor

2010 MSC: 00-01, 99-00 **** Decide MSC classifications ****

1. Introduction

Here are two sample references: [1, 2].

Here is a line from Prof. Heun.

2. Methods

5 Figure 1 shows Heun’s vacation. Paul added something more. Heun added something.

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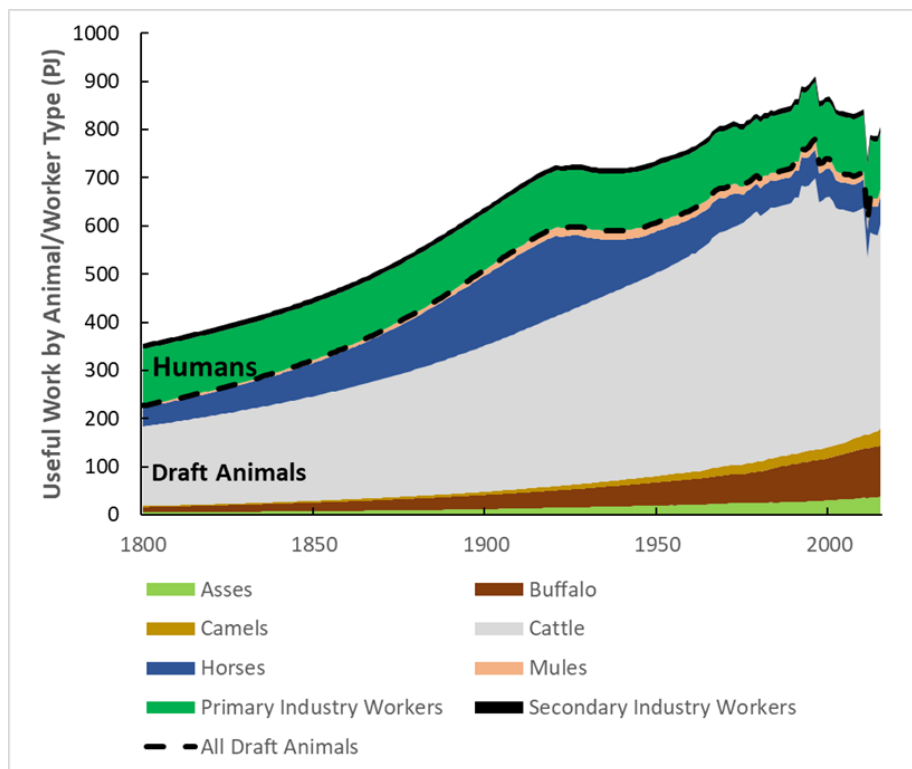


Fig. 1: This is a test figure for Paul to see how it works.

3. Results

References

- [1] R. Feynman, F. Vernon Jr., The theory of a general quantum system interacting with a linear dissipative system, *Annals of Physics* 24 (1963) 118–173.
10 doi:10.1016/0003-4916(63)90068-X.
- [2] P. Dirac, The lorentz transformation and absolute time, *Physica* 19 (1–12) (1953) 888–896. doi:10.1016/S0031-8914(53)80099-6.