



RESEARCH ARTICLE

Animal traction, two-wheel tractors, or four-wheel tractors? A best-fit approach to guide farm mechanization in Africa

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(Received 13 September 2022; revised 17 January 2023; accepted 21 June 2023)

Summary

Farm mechanization promises to help raise labor productivity and reduce the heavy toil of farming on the world's millions of smallholder farms, hence contributing to socioeconomic development in the Global South, in particular in Africa. While mechanization is therefore high on the African development agenda, there are heavy – at times dogmatic – debates on which technological pathway toward farm mechanization – animal traction, two-wheel tractors, and four-wheel tractors – should be supported by African governments and development partners. One discussion area relates to the future of animal traction. Proponents see a continued scope for the use of draught animals, whereas opponents see animal traction as old-fashioned and see a potential to leapfrog this mechanization stage. There are also debates on the potential of two-wheel tractors, with proponents arguing that such walk-behind tractors are more affordable and suitable for smallholder farmers, and opponents believing that such tractors lack efficiency and power and still come with a high drudgery. This paper argues that there are no blueprint answers on which technological pathway is 'best' but only answers on which one 'best fits' the respective conditions. Based on this premise, this paper introduces a 'best-fit' framework that allows for assessing the comparative advantages and disadvantages of the three technological pathways in different agroecological and socioeconomic conditions. The results suggest that all three forms of mechanization are associated with areas where they 'best fit'. All three farm mechanization pathways hinge on public policies and investments to create an enabling environment for private markets, as, ultimately, innovation processes should be market driven. The 'best-fit' framework enables governments and development partners to focus efforts to support farm mechanization on solutions that 'best fit' their country's farming systems and not on those that are politically most attractive, thereby contributing to sustainable agricultural mechanization and development.

Keywords: Agricultural mechanization; Animal traction; Draught animals; Farm mechanization; Four-wheel tractors; Two-wheel tractors

Introduction

Manual labor preoccupies much of the physical and intellectual resources of a large share of the world's 550 million family farms, in particular in the Global South (Daum, 2023; Lowder *et al.*, 2021; Van Vliet *et al.*, 2015). Despite hard work, many of these farms are associated with limited labor productivity, and consequently, high shares of poverty and hunger (Daum, 2023; Fuglie *et al.*, 2019). Moreover, the heavy toil of farming can undermine farm families' health and

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Animal Traction Artisan Edition

Karen McAthy



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Protecting Cows Stuart Coyle,Syamasundara Dasa,1998 Harnessing and Implements for Animal Traction Paul Starkey,1989 Covers use in soil preparation harvesting irrigation fertilizer application etc **Traction Animale Et Developpement Agricole Des Regions Chaudes : Bibliographie** Johann Huguenin,Philippe Lhoste,1988 Oxen Drew Conroy,1999 *BIFAD Briefs* United States. Board for International Food and Agricultural Development,1978 **Working Equines** R. A. Prentis,1994 **American Artisan** ,1870 **Wie man unsere Zivilisation wieder aufbaut, wenn man sich mit seiner Zeitmaschine verfahren hat** Ryan North,2020-11-17 Zeitmaschine kaputt Kein Problem So ein cooles Buch Randall Munroe Was tun wenn die eigene Zeitmaschine mitten im Nirgendwo den Geist aufgibt Erstens dieses Anleitungsbuch zur Hand nehmen Zweitens die Zivilisation die man zur ckgelassen hat ganz einfach wieder neu aufbauen Dieser durch und durch praktische Ratgeber bietet dem gestrandeten Zeitreisenden eine komplette und unterhaltsame bersicht zur Erschlie ung aller Errungenschaften unserer hoch industrialisierten Welt von der Erfindung des Rades bis zum modernen Computer Ein Must have f r jeden Zeitreisenden American Book Publishing Record ,1984 *2016 - DEBBIES BOOK(R) 28th Edition* Debbie Hemela,2016-02-10 2016 Debbies Book 28th Edition Digital Printable Book 5 ways to experience Debbies Book Physical book for users who want to hold it in their hands Printable book for users who want to print certain pages Tablet friendly eBook for users who love their iPads and eReaders Mobile App for iOS Android Devices Blog featuring how tos vendors and news The book is organized by categories in alphabetical order Listings for Prop Houses and Costume Rental Houses are shortened to one or two lines to save space Their full contact information is located within the Prop House and Costume Rental Houses categories only 26th Edition DEBBIES BOOK(R) Debbie Hemela,2014-02-26 This is the 26th Edition of Debbies Book Now after the release of our Android version of our iPhone App in January 2014 it s time to release our 26th print edition You now have 3 ways to experience Debbies Book A physical book for users who want to hold it in their hands A printable book for users who want to print certain pages A tablet friendly eBook for users who love their iPads and eReaders The book is organized by categories in alphabetical order Listings for Prop Houses and Costume Rental Houses are shortened to one or two lines to save space Their full contact information is located within the Prop House and Costume Rental Houses categories only 2018 - DEBBIES BOOK(R) 30th Edition Debbie Hemela,2018-02-28 2018 Debbies Book 30th Edition Digital Printable Book 5 ways to experience Debbies Book Physical book for users who want to

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