

Sudan University of Science and Technology

College of Graduate Studies and Research

**MAIN CAUSES AND EFFECTS OF NON-SUSTAINABLE
AGRICULTURAL DEVELOPMENT IN WEST DARFUR STATE**

**الأسباب الرئيسية للتنمية الزراعية غير المستدامة و آثارها بولاية غرب
دارفور**

A Thesis

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By

Nadia Ibrahim Ahmed

Supervisor: Professor Awadalla Mohamed Saeed

Co-Supervisor. Dr Elshefa Ali Mirghani

Co-supervisor .Dr Hag Hamad Abdelaziz

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Dedication

*To my parents who inspired me and
Encouraged me for academic achievement*

To my teachers in all education levels

To my colleagues in agricultural fields

*To any person who is working to reduce poverty and
food insecurity*

With my love

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Many people have helped me to make this work as it is. Most of all, I am grateful to Professor. Awadalla Mohamed Saeed who has supervised this study, and has offered his continuous guardianship during my study, whether throughout his supervision or in solving the problems or constrains that came across. An appreciation, to my brother, Bashier Hammad Ibrahim, the Minister of Agriculture in West Darfur State, for providing wide facilities at the Ministry of Agriculture as well as his concern. A lot of thanks to my colleagues from the Ministry of Agriculture, especially the data collectors. Also thanks are extended to community leaders, farmers, NGOs and FAO office in West Darfur State for follow- up and support. Special thanks to my co- supervisors ,Dr ELShefa Ali Mirghani and Dr. Hag Hammed Abdelaziz. I am so grateful to all of the other friends who did, me a favor during my study period. God help me to do the best to all of them, amen.

ABSTRACT

The objective of the present study is to investigate the causes and effects of non- sustainable agricultural development in West Darfur. Primary data for the study were collected through use of structured interview schedules from settled community residents, IDPs, returnees and women heads of households in the targeted area. Interviews with key- informants (for trend discussions) were also conducted. The research design involved in the first part collection of data on target groups demographic characteristics. The second part concentrated on identification and assessment of the perceptions of farmers (residents, IDPs, returnees and women heads of households) of main causes and effects of non-sustainable agricultural development. This study, therefore, seeks to observe the adjustment and coping strategies of individuals in the effected communities. It examines the communal conflicts among the people. and government interventions. and the problems associated with low agricultural production. The study employed principally a qualitative analysis methodology: in-depth interviews, observations and focus group discussions, among across section of 300 households drawn via a snowballing sampling method in six localities (Elgenina, Habila, kulobus, Zalengi, Wadi Salh and Nertittee) in West Darfur State.

Major finding of the study showed that the low agricultural production and encroachment on farmland is forcing a lot of youths to migrate and seek non- agricultural employment in urban centers, and to adopt deviant survival strategies such as crimal activities. It was also observed, that low agricultural productivity, encroachment on farmlands and community disputes and conflicts over fertile land have increased, and the problems of internally displaced person were inevitable. Lastly, government interventions were

claimed by the respondents to be non- existent, slow and limited to economic compensations in some communities. This study concludes and recommends among other things, the need for the government, the farming population, the scientific communities and international communities to help in sustainable agricultural development and reduction of the damages to natural resources emanating from conflicts.

مستخلص الأطروحة

تهدف الرسالة الى تحديد و تقييم أسباب و آثارأساليب الزراعة غير المستدامةو الصراع بولاية غرب دارفور ,و اعتمدت الدراسة على استبيانات و مقابلات أجريت وسط المزارعين المقيمين والنازحين والعائدين و النساء المزارعات الآئي يعلن أسر بمنطقة الدراسة، وكذلك القيادات المحلية.

صمم البحث على أساس جمع المعلومات عن سمات المجموعات المستهدفة كجزء أول من الإستبيان.واشتمل الجزء الثاني من الإستبيان على معلومات تهدف الى تقييم مفاهيم المجموعات المستهدفة حول الأسباب الرئيسية و الآثار المترتبة من عدم الاستدامة الزراعية بولاية غرب دارفور.تبحث هذه الدراسة التدابير و الاستراتيجيات تكيف أفراد المجتمع المتأثر بالصراع وكذلك التدخل الحكومي في تخفيف المشاكل المرتبطة و المؤدية إلى انخفاض الإنتاج الزراعي.

إعتمدت الدراسة أساساً على إستخدام منهج التحليل النوعي العميق عن طريق إستخدام المقابلات ومجموعات النقاش كما إهتمت بتدوين الملاحظات أثناء إجراء المقابلات. وقد تم اختيار 300 أسرة لأغراض الدراسة من 6 محليات

(الجنينة, هبيللا, كلبس, زالنجي, نيرتتي, وادي صالح) في ولاية غرب دارفور.

أظهرت الدراسة أن انخفاض الإنتاج الزراعي في الأراضي الهامشية قد شجع الكثير من الشباب الى الهجرة و إرتياد مهن أخرى غير الزراعة في المناطق الحضرية وبعض منهم إتخذ الجريمة (النهب المسلح) كإستراتيجية للتكيف,و أيضا لوحظ زيادة الصراع على الموارد الطبيعية والأراضي الخصبة نتيجة لانخفاض الإنتاج الزراعي. أما التدخل الحكومي حسب إفادة المبحوثين فإنه غير موجود و أن وجد لا يفي بحاجات المجتمع الإقتصادية.

كما إستنتجت الدراسة حاجات المجتمع للتنمية الزراعية المستدامة وبذلك أوصت الحكومة و المزارعين و العلماء الباحثين و المجتمع الدولي للمساعدة في دفع عملية التنمية الزراعية المستدامة في الولاية وتخفيف النزاع على الموارد الطبيعية

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List of Abbreviations

DLC	Darfur Land Commission
EISA	European Initiative for Sustainable Development Agriculture
FAO	Food and Agriculture Organization
GEAP	Government Environment Action Plan
IDPs	Internal Displacement Persons
JAM	Joint Assessment Mission
MDGs	Millennium Development Goals
NEAP	National Environment Action Plan
NGOs	Non Governmental Organization
NLC	National Land Commission
NSD	National Sustainable Development
OECD	Organization for Economic Cooperation and Development
PIPs	Policies Institution and Development
PPD	Plant Protection Department
PRSP	Poverty Reduction Strategy Paper
RDP	Rural Development Projects
SEEA	System of Environmental and Economic Accounting
SD	Sustainable Development
UNDP	United Nation Development Program
UNSO	United Nation Sudano- Sahelian Organization
WB	World Bank

