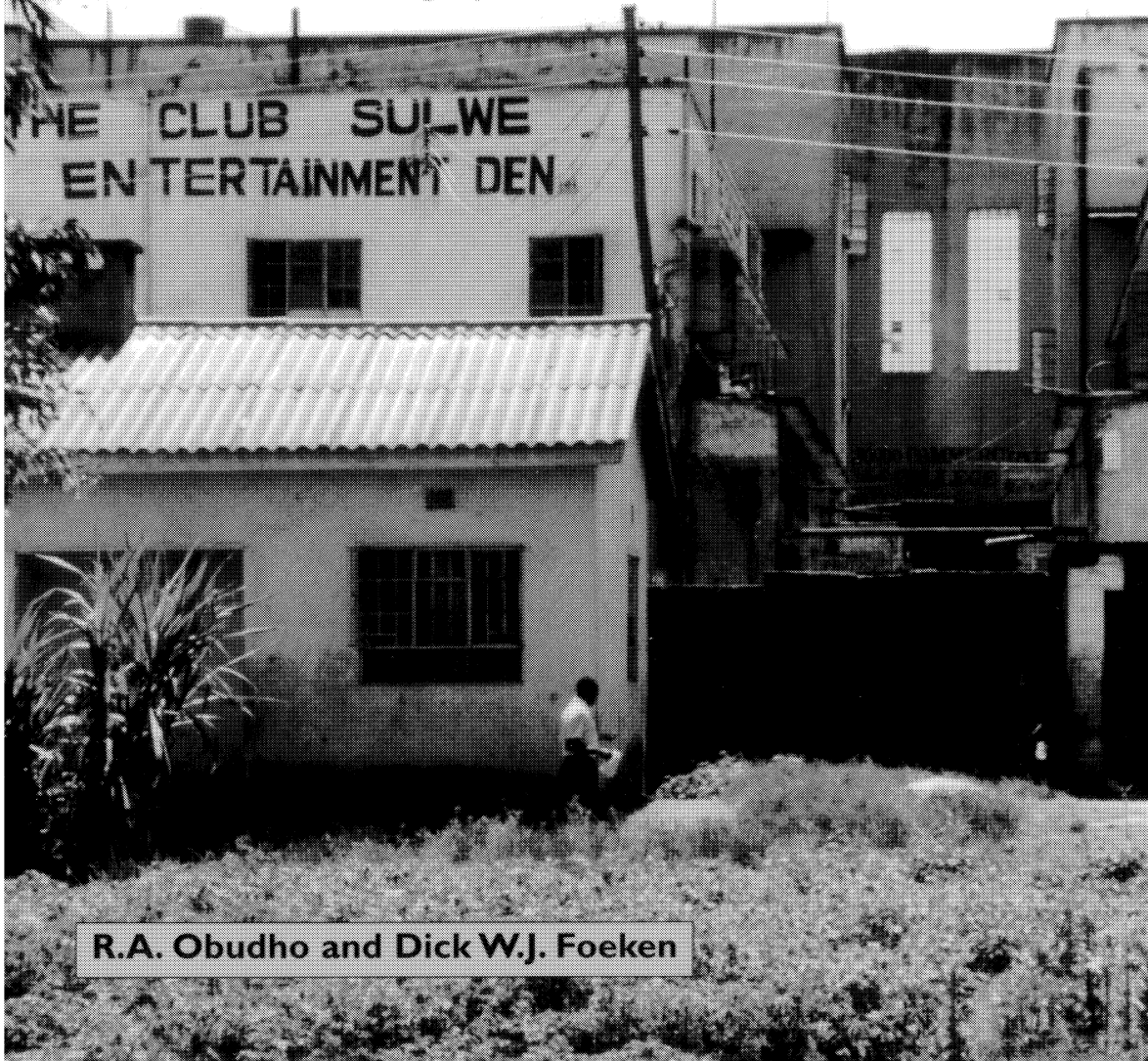


# URBAN AGRICULTURE IN AFRICA

A Bibliographical Survey



R.A. Obudho and Dick W.J. Foeken



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CENTRE FOR URBAN RESEARCH

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Compiled by

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# Contents

Preface	vi
Acknowledgement	ix
Journal sources	xi
<b>1 Introduction</b>	<b>1</b>
<b>2 Africa general</b>	<b>5</b>
<b>3 Northern Africa</b>	<b>26</b>
<b>4 Western Africa</b>	<b>28</b>
<b>5 Central Africa</b>	<b>37</b>
<b>6 Eastern Africa</b>	<b>40</b>
<b>7 Southern Africa</b>	<b>55</b>
Author index	67
Region and country index	83

## Preface

The usefulness of bibliographies is questioned occasionally because scholarly literature and interest usually transcend national and disciplinary boundaries. This bibliography about urban agriculture in Africa is of particular importance today due to the dearth of information about it and the increasing interest in urban agriculture in major centres of learning around the world. Hardly a month passes without some new contribution to the literature dealing with urban agriculture. To the scholar and the librarian, this development poses a serious problem of bibliographical control. This problem is particularly apparent in the libraries and research centres in Africa, most of which are neither adequately stocked nor able to provide access to the catalogues of titles available.

Some significant attempts have been made to improve this situation recently and periodic publications of various bibliographies have been done. However, they cover Africa in general rather than urban agriculture in particular because of the interdisciplinary nature of the subject. Whatever the title, the published bibliographies for Africa are so limited in scope that they point only to a small portion of the extensive literature in this expanding field. The bibliography is intended to help remedy this situation, insofar as Africa's urban agriculture is concerned.

This bibliography is a comprehensive compilation of works dealing with urban agriculture in Africa. The major aim of it is to serve as a simple and practical tool for individuals interested in the topic. The reader will notice, however, that on first sight various titles do not clearly point to urban agriculture as such. Because of the difficulty in distinguishing urban agriculture literature from titles fitting in closely related fields, we decided to include the latter titles as well. As a result, titles on urban food security, urban nu-

trition, urban food distribution, street foods, and urban environment are also included in the bibliography. The broadness of the topic is briefly outlined in Chapter 1 (Introduction), which offers a very concise overview of the phenomenon of urban agriculture in Africa.

The bibliography is a listing of all materials that have ever been published or written on the subject of urban agriculture in Africa up to 1998. This records all books, chapters in books, discussion and conference papers, periodical literature and all types of academic theses, dissertations and unpublished documents. All the periodicals which were sourced are listed in the front matter of this book.

In order to have easy access to the entries, the bibliography is organized in a sequence form from 001 to 516 and categorized into six chapters, namely Africa General, Northern Africa, Western Africa, Eastern Africa, Central Africa and Southern Africa. Apart from Chapter 2, which contains the entries dealing with Africa in general, the five regional chapters are organized alphabetically by respective countries in the region. An author and region and country index is also included at the back of the book for easy reference.

In order to have a complete bibliography, we consulted many journals, bibliographies and books dealing with agriculture and animal husbandry worldwide. While it is easy to gain access to public documents, it is not always easy to gain access to academic theses and dissertations and other unpublished manuscripts. The entries dealing with other unpublished manuscripts are, therefore, particularly important to all serious researchers. This bibliography is primarily an informative guide to the literature on urban agriculture in Africa. Since bibliographies are never complete, users of it are advised to look at specialized occasional publications that continue to be published. The Council of Planning Librarians publish occasional exchange bibliographies on the Less Developed Countries. The unpublished official documents of the African governments have been duplicated and are now available worldwide. Because of the scattered nature of the official unpublished documents in Africa, the archives must also be consulted. Finally, there is a wealth of information on urban agriculture of various local, regional and national governments as well as United Nations bodies such as



the Food and Agriculture Organization in Rome.

Although comprehensive in subject coverage, this bibliography, like any other bibliography, is not exhaustive. It is intended as a beginning for further studies on the subject. It is not only intended for specialists in African studies, urban agriculture, urban studies and regional planning, but it is hoped that it may be helpful to other users such as policy makers in Africa and many others including social scientists, historians, business and marketing professionals, politicians and lawyers studying contemporary Africa. For this reason, there is heavy emphasis on the periodicals, reference works, and other sources of information that can lead the reader to more specialized sources necessary for the intensive study of the important area of urban agriculture.

R. A. Obudho, Dick W.J. Foeken  
May 1999

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This volume would not have been possible without the help of numerous people who were consulted. But because of limited space we cannot express our gratitude to all of them. To each and every author named in the Author index and their respective publishers, we express our sincere thanks.

We must acknowledge the assistance we have received from colleagues at the University of Nairobi Library, Kenyatta University Library, Moi University Library and Egerton University Library, all in Kenya; University of Dar es Salaam Library and Ardhi Institute Library both in Tanzania; Makerere University Library in Uganda; State University of New York at Albany Library, New York, and the United States Library Congress, Washington, D.C., both in the U.S.A.; and the African Studies Centre Library, Leiden, The Netherlands. It is impossible to enumerate the many librarians and curators of collections who have given freely of their time and knowledge in providing us complete access to their libraries. We register a deep sense of gratitude for their help.

We also received support and encouragement from various colleagues internationally who have constantly fired our interest in the subject of urban agriculture. We acknowledge the support particularly of our Kenyan colleagues at the University of Nairobi; Kenyatta University, Nairobi; Moi University, Eldoret; Egerton University, Njoro; African Urban Quarterly Limited, Nairobi, and Centre for Urban Research, Nairobi.

Thanks are due to our students who helped us with the library search, research, typing and proof reading of the manuscripts. Special thanks are due to Mr. Gibson I.O. Aduwo, Mr. Peter Abwao, and Mr. Samuel O. Owuor who did the research and rechecked most of the references. We also

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While we thank all the above, we would like to absolve them of any errors found in this bibliography. All the errors, if any, is our responsibility and should be addressed to us at the address above.

## Introduction

Although different definitions of urban agriculture exist, the easiest way to describe it is as any agricultural activity within the boundaries of an urban centre. This definition encompasses all kinds of crop cultivation (including e.g. ornamental plants) as well as various types of animal husbandry (also including e.g. bees and fish). During the last two decades these activities have been on the increase in most Less Developed Countries, in Africa in particular. This is mainly due to a number of factors such as continuing rural-urban migration, economic recession and structural adjustment policies, resulting in for instance growing unemployment rates and rising food prices. Hence, urban poverty increased substantially, inducing many urban residents to start producing some food themselves.

Several types of urban agriculture can be distinguished. First, there is the so-called backyard farming, also known as on-plot farming, i.e. cultivating crops and/or keeping animals in one's own compound near the house. On-plot farming usually concerns middle-income households. The second type is the so-called off-plot farming, i.e. farming on land that belongs to somebody else. This is typically being done by low-income households and can be found along roads, rivers and railway lines, under power lines, in parks and in the middle of roundabouts, among others. Finally, farming is common in the outskirts of urban centres, on previously rural land that became

part of the urban centre due to boundary extensions. In these zones, both small-scale and large-scale farming can be found. However, as the urban centre grows, these areas gradually lose their 'rural' character and farming becomes increasingly of the other two types.

Farming by urban residents is done for either subsistence or commercial purposes or both. For the poor, increasing their food security is usually the main motivation; for some, it may even be a survival strategy. Nevertheless, many of the poor also sell some of their produce in order to be able to pay other basic household needs. For the middle-income households (and high-income households as well), commercial considerations are usually of more importance than among the poor, although the consumption of own-produced vegetables and milk is often highly valued. On the whole, subsistence farming is dominant in the African urban centres.

The latter is one of the reasons that the majority of the African urban farmers are women. Traditionally, in most parts of Africa, the women are responsible for the household's food provision. Another reason is that women usually have a lower educational level than men and hence have more difficulties with finding some kind of employment. Farming may be the only option left to them. Several studies found that the number of female-headed households was disproportionately high among the urban farmers. It has also been shown that it is usually not the recent migrants who practice urban farming. For those who do not own a piece of urban land, one has to be settled and dispose of the right network in order to be able to get access to a piece of land.

The crops grown concern mostly the basic food crops such as maize, beans, cassava, sorghum, rice and yams. A wide range of vegetables are also cultivated, part of which is often sold because of its perishability and because there is usually a ready market for it. Some urban farmers do grow crops solely for commercial purposes, however, such as tomatoes, spinach and lettuce. This seems to be more common in West Africa than in Eastern Africa. Tree crops are not very common, which is related to the uncertainty in terms of land tenure many urban farmers face.

Although animal husbandry is somewhat less common than crop

cultivation, many urban households do keep some animals. Most common is poultry, mostly for commercial purposes by selling chicken and eggs. Goats and sheep can also be found in all African urban centres. This applies to cattle as well, although sometimes less visible because quite a number of them are kept in zero-grazing. Pigs are less common, partly because the market for these animals is usually small in Africa, but also because it tends to cause a nuisance for the neighbours, inducing the local authorities to forbid this practice. Some farmers keep rabbits or ducks while a small number are involved in bee-keeping. Fish ponds, quite common in Asian urban centres, are hardly found in African urban centres.

Urban farmers face various constraints such as irregular rainfall, droughts, flooding, waterlogging, poor soils, destruction by animals, pests and diseases which are not different from the problems faced by rural farmers. Other problems, however, are more specifically related to the urban context and are particularly faced by the poor who practice off-plot farming. Examples are uncertainty regarding land tenure, theft of crops, lack of capital and inputs and threat of eviction or destruction of crops.

In most African countries, urban farming is illegal. Bylaws usually date from colonial times and simply forbid any agricultural activity within the boundaries of urban centres. However, as the practice has become so widespread during the last two decades, a change in policy has also occurred. During the 1960s and 1970s, policies were usually restrictive in the sense that harassment or destruction of crops were common measures taken by the local authorities. During the 1980s, however, a gradual shift from restriction to allowing took place. Nowadays, it is usually allowed, as long as it does not cause a nuisance in the sense of too tall crops (like maize in which criminals can hide and in which mosquitoes are assumed to breed), danger for the people's health (e.g. animal deposits), foul smells, noise and traffic accidents, among others. In some urban centres such as Dar es Salaam, for example, the local authorities encourage people to practice urban farming in order to raise the level of food supply.

Urban agriculture is considered by many as an environmental hazard because of the danger of soil erosion and the use of contaminated water for irrigation purposes while crops cultivated along road sides are prone to air

pollution. Since urban farming tends to be more intensive than rural farming, the use of chemical fertilizers, pesticides and insecticides can have a great impact on the urban environment. Animals cannot only cause stench but also overgrazing and traffic accidents. Recycling of sewage water and of urban solid waste turning it into compost are often propagated as a kind of panacea for both urban crop production and the improvement of the urban environment. Although environmental awareness is growing in Africa, such measures have not yet been put into practice.

The above is a very concise and general summary of some of the findings of the studies included in the bibliography. Although the bibliography contains over 500 entries, the knowledge of urban agriculture in Africa is still very fragmentary. This is due to the fact that most studies focus on one or two aspects of urban farming only and usually in one specific urban centre (usually the national capital) or even a specific part or project within that centre. As Mougeot (1994, entry 113) rightly observes, particularly lacking are, for instance, studies in which urban farmers and non-farmers are compared, as well as studies in which various aspects and effects of urban agriculture are analysed.

The bibliography shows that the knowledge of African urban agriculture is geographically scattered as well. If the five distinguished regions of the continent are compared, there appears to be a heavy bias towards Eastern and Southern Africa. Studies done in Northern Africa are almost completely absent. If the country studies are compared on a linguistic basis, the bias is even more conspicuous: 75% of the country-specific entries concern Anglophone countries, only 14% being Francophone and the remaining 11% 'other' (mainly Portuguese and Ethiopia). Not surprisingly, then, among the eight countries with more than 10 entries in the bibliography, seven are Anglophone, the only exception being Ethiopia. The three East African countries — Tanzania, with 57 entries, in particular — and Zimbabwe are the highest ranking countries. Finally, a number of countries have no entries at all, indicating that either there has so far not been done any research on the topic or the compilers of this bibliography were not aware of it. Among the larger countries in this category, one finds Algeria, Angola, Chad, Guinea, Libya, Madagascar, Mauritania, Morocco and Niger.

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## Author index

Figures refer to entry numbers.

### A

- Abbott, J., 104
- Adeptu, A.A., 261
- Adrien-Rongier, M. F., 292
- Ahmad, K., 064
- Aipira, Hoffman, 001
- Ajaegbu, Hyacinth I., 054
- Akinyele, I.O., 262
- Alaruka, A.A., 297
- Allaya, M., 224
- Alnwick, David, 419
- Amis, P., 420
- Andrae, G., 263
- Arhin, Kwame, 244
- Armar-Klemesu, Margaret, 248
- Aronson, D., 264
- Assaad, Marie, 219
- Assunçao, P., 005
- Atakunda, Gertrude, 421
- Atkinson, Sarah J., 002, 003, 004
- Atuanya, E.I., 265
- Ayisi, Ruth Ansah, 449

## B

Baah, J., 243  
Baker, J., 363  
Barret, Hazel R., 282  
Bartone, Carl R., 081  
Baxter, J., 457  
Beavon, K.S.O., 458  
Bellows, Anne C., 006  
Bernstein, Janis, 173  
Binns, Tony, 007  
Birley, Martin H., 008, 009  
Bisgrove, E.Z., 132  
Bongole, A.M., 364  
Bornstein-Johanssen, A., 021  
Bos, F., 474  
Bowa, M., 470  
Bowyer-Bower, T.A.S., 489, 496  
Braatz, S.M., 010, 083  
Briggs, J., 365, 366  
Brock, Berend, 233  
Brown, Angela W., 281  
Bruce, Judith, 219  
Burdarch, J., 011  
Byerley, A., 444

## C

Carter, E. Jane, 012  
Centres, J.M., 226  
Chaipa, J., 490  
Chaleard, Jean-Louis, 253

Chevassus-Agnes, S., 277  
Chigume, S., 522  
Chimbowu, Admos, 304, 441  
Choma, N.K., 297  
Coccia, A., 023  
Cockram, Mary, 013  
Coon, K., 090  
Cornia, G., 014  
Coulibaly, Y., 256  
Creemers, L., 329  
Crook, N., 133  
Csette, Joanne, 434

## D

Daddieh, Cyril, 244  
Dana, S., 015  
Darwish, O.A., 220  
Davies, H.R.J., 222, 223  
Data Research Africa, 459  
Debrah, S.K., 016  
Dedehouanou, Houinsou, 234  
Deelstra, J., 017  
De Garine, I., 018  
De Leener, P., 031  
Delgado, C., 241  
Della, A.A., 254  
Dema, I.S., 019  
De Negrís, M., 023  
Den Hartog, A.P., 019, 020, 021, 022  
Dennerly, Pascale, 024, 305, 330, 331, 332



Dettweiler, Steven, 255  
Diallo, Fodé, 278  
Diallo, Souleymane B., 227, 228, 229, 230, 256  
Drakakis-Smith, David, 025, 026, 027, 028, 029, 491, 492, 493, 494, 495, 496,  
497, 498  
Drechsel, P., 231  
Drescher, Axel W., 471, 472, 473, 474  
Duchhart, Ingrid, 030  
Dupriez, H., 031

## E

Eberhard, R., 460  
Egziabher, Axumite G., 033, 306, 316, 317, 318, 319, 320  
Ehui, S.K., 163, 327  
Elder, G., 458  
Ellis, Frank, 034  
Eloff, B., 079  
ENDA-Zimbabwe, 499, 500, 501, 502  
Engle, Patrice, 147  
Ethangatta, Linda K., 333  
Ethelston, S., 035  
Evers, H.D., 036

## F

FAO, 037  
FAO/WAAP/KSAS, 038  
Faure, A.M., 160  
Feldman, Shelly, 013  
Field-Horine, E., 039

Fillian, Efiti, 040  
Fitzhigh, H.A., 163  
Florencio, C.A., 041  
Foeken, Dick, 334, 335, 336, 337, 338, 354  
Fornseth, O., 042  
Fowler, E.P., 043  
Franke, M., 247  
Freedgood, J.O., 090  
Freeman, Donald B.O., 044, 339, 340, 341  
Freidberg, Susanne, 194, 237, 238, 239  
Fresco, Louise O., 068

## G

Gabr, M. K., 045  
Gardner, Bruce, 046  
Garrett, TJames L., 047, 147  
Gathuru, P. Kuria, 048, 342, 343, 349  
Gaye, Malick, 278  
Gbadegesin, A., 266, 267  
Gebre, S., 321  
Gebru, Getachew, 327  
Gefu, Jerome O., 268  
Gentili, Anna Maria, 450, 451  
Goldman, A., 049  
Golhor, K., 050  
Greenhow, T., 051, 445, 446  
Grimble, R.F., 246  
Grootenhuis, Frederique, 030  
Gross, B., 062  
Gross, R., 052, 053

Grossmann, David, 054  
Groupe de Recherche et d'Echanges Technologiques, 257  
GTZ, 367  
Gumbo, Davison, 304, 441, 503  
Gura, Susanne, 145  
Gutman, Pablo, 055, 056  
Guyer, Jane T., 057, 058

## H

Haddad, Lawrence, 047, 147, 240  
Haile, Fekerte, 322, 323  
Hake, A., 344  
Hamyani-Mlambo, Benjamin, 523  
Hang, Chen, 059  
Haque, Farhand, 060  
Hart, Doortje, 061  
Hartvelt, F., 062  
Hasna, Mahbuba Kaneez, 063  
Hassan, N., 064  
Haubert, M., 065  
Helmore, Kristin, 066  
Henriksen, J., 130  
Hill, R.D., 067  
Holm, M., 368  
Hoogerbrugge, Inge, 068  
Hormann, Dieter M., 069, 324, 369  
Horn, Nancy E., 504, 505, 506, 507  
Hovorka, Alice J., 070  
Howorth, C., 370  
Huckaby, J.D., 475  
Hussain, Anwar M., 071, 072

## I

Ibrahim, M.B., 223  
IDRC, 073, 074  
Igoche, A.O., 269  
Igun, V.A., 270  
ILEIA, 075  
Immink, Maarten D.C., 076  
Intengan, C.L., 077

## J

Jaeger, Dirk, 475  
Jayne, T.S., 525  
Jeanin, M., 078  
Job, C.D., 271  
Johns, M., 079  
Jolly, R., 014

## K

Kakitahi, J., 422, 423  
Kalbermatten, John M., 081  
Kamoun, A., 225  
Kelly, P., 080  
Kennedy, D., 371  
Kenya, Government of, 345  
Khauri-Dagher, N., 221  
Khosla, Prabha, 424, 425  
Khouri, Nadim, 081  
Kiabou, B., 258  
Kiango, S., 372

King, B., 490  
Kishimba, M.A., 373, 374  
Kivell, D.T., 496, 497  
Kombe, J.W.M., 375  
Konate, Yacouba, 259  
Krhoda, M. A., 346  
Krieger, Judith, 287  
Krumdiek, C.L., 082  
Kuchelmeister, G., 083  
Kufogbe, Sosthenes, 247  
Kyessi, A.G., 376, 377

## L

Lachance, A., 232  
Ladder, M., 084  
Lado, Cleophas, 347  
Lamba, Davinder, 087, 307, 308, 348, 349  
Lampety, Grace mary, 248  
Lape, M.I., 288  
Larbi, Wordsworth Odame, 248  
Lasserre, G., 302  
Lawrence, H.W., 085  
Lebigre, J. Michel, 303  
Ledogar, Robert, 476, 477  
Lee, Marilyn, 325, 326  
Lee-Smith, Diana, 086, 087, 088, 306, 349, 350, 351, 352  
Levin, Carol, 434  
Lewcock, C., 272, 407  
Likoko, T., 372  
Little, Peter, 244

Lock, Karen, 008, 009  
Lockeretz, W., 089, 090  
Loforte, Ana Maria, 452, 453  
Loon, S., 235  
Lourenço-Lindell, Ilda, 250, 251, 252  
Lucenet, F.P., 478  
Lugeye, S.C., 381  
Lukefahr, Steven, 091  
Lundven, Paul, 072  
Lupalla, A.M.K., 378  
Lupanga, I.J., 379, 381, 389, 390, 396  
Lynch, Kenneth, 007

## M

Maletnlema, T.N., 092  
Mandl, P. E., 124  
Manundu, Mutsembi, 349  
Mapetta, Matseliso, 447  
Marshall, Judith, 454  
Martin, R., 479  
Mascarenhas, A.C., 093  
Masoka, M., 508  
Massé, Denis, 119  
Massey, R., 236  
Materu, J.S., 380  
Mathias, M., 094  
Matlala, P., 095, 461  
Matshalaga, N., 096  
Mattee, A.Z., 381

Maxwell, Daniel G., 097, 147, 248, 306, 421, 426, 427, 428, 429, 430, 431,  
432, 433, 434, 435, 436, 437

May, Julian, 098, 462, 463, 464

Mazambani, D., 509, 510, 511

Mbassi, E., 099

Mbiba, Beacon, 512, 513, 514, 515, 516, 517, 518, 519, 520

Mbuyi, K. 298

McComb, J., 207

Memon, Pyar Ali, 306, 350, 351, 352

Mengho, Bonaventura Maurice, 295

Menon, Purnima, 147

Mensah, B. Fred, 206

Metzger, Rene, 100

Mianda, Getrude, 299

Midmore, David J., 101

Miller, S.A., 102

Mitlin, Diana, 103

Mittendorf, H. J., 104

Mlozi, Malongo R.S., 379, 382, 383, 384, 385, 386, 387, 388, 389, 390, 396

Molete, B., 105

Mollet, N.M., 381

Monteiro, C.A., 052

Morrinière, J.L., 290

Morris, Saul S., 147

Mortimore, M., 106

Moscoso, Julio, 106

Moser, C.O.N., 107

Mosha, A.C., 391, 392

Mougeot, Luc J.A., 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119,  
279, 306

Moustier, Paule, 120

Mtewe, M., 393  
Mudimu, Godfrey D., 521, 522, 523  
Mulenga, M., 480, 481  
Muller, Maria S., 121  
Mustapha, A.R., 274  
Mutasa, A., 122  
Mutiso, S.K., 357  
Mvena, Z.S.K., 379, 389, 390, 394, 395, 396  
Mwamfupe, D.G., 397  
Mwangi, Alice Mboganie, 335, 336, 337, 338, 353, 354

## N

Nasinyama, G.W., 438  
Nasr, J., 123, 142, 172, 174, 175  
Ndiripo, Takawira W., 503  
Nelson, J., 124  
Nelson, Tuni, 125  
Nestle, M., 126  
Ngoda, S.G., 398  
Ngub'usim, M.N., 300  
Ngwa, Nebasina E., 291  
Niang, Seydou, 280  
Nicholson, Charles F., 327  
NIGP/STOAS, 399  
Ninez, Vera, 127  
Nnanyelugo, D.O., 128  
Nuwagaba, A., 439  
Nyamrunda, C., 400



## O

Obara, D.A., 355, 356, 357  
Ofei-Aboagye, Esther, 249  
Ogden, Cynthia, 361  
Olaloku, E.A., 176  
Oloya, C., 440  
Omotola, B.D., 262  
Oshaug, A., 147  
Ottens, L., 235

## P

Padilla, M., 224  
Pandya-Lorch, R., 206  
Pearce, R., 482  
Pedersen, Paul Ove, 524  
Pelissero, J.A., 129, 130  
Penning de Vries, F., 231  
Perisse, J., 225  
Phororo, Hopolang, 447  
Pierce, J.T., 042  
Platt, Rutherford, 131  
Pluimers, Jacomijn, 061  
Popkin, B.M., 132  
Pottier, J., 362  
Potts, D., 448  
Prasad, Gisela, 447  
Prioul, C., 293  
Pryer, J., 133  
Pullin, R.S.V., 032  
Puri, R., 134

## Q

Qamra, P., 134  
Qamra, S.K., 134  
Quansah, C., 231

## R

Rakodi, Carole, 135, 483, 484, 485  
Raphely, P., 136  
Ratta, Annu, 066, 137, 138, 139, 140, 141, 142, 171, 172, 173, 174, 175  
R.C.D. Consultants, 143  
Reardon, T., 241  
Reutlinger, Shlomo, 144  
Richard, J., 301  
Richter, Jürgen, 145  
Rogerson, C.M., 146, 463, 464, 465, 466, 467, 468, 469  
Rolland, J.P., 226  
Rubey, L. 525  
Ruel, Marie T., 147

## S

Sachs, Ignacy, 148, 149, 150, 151, 152, 153, 154  
Sai, F.T., 155, 156  
Santos, M., 157  
Sanyal, Bishwapriya, 158, 159, 309, 310, 486, 487, 488  
Satterthwaite, David, 103  
Sawio, Camillus J., 287, 306, 311, 312, 402, 403, 404, 405, 406  
Schensul, S.L., 159  
Schilter, Christine, 285, 286  
Schippers, R., 407

Schirdi, B., 160  
Schnitzler, Wilfred H., 145  
Scott, J., 161  
Sene, E.H., 161, 162  
Shapiro, Barry I., 163, 327, 328, 358  
Shauri, R., 408  
Shawel, H., 324  
Sheldon, Kathleen, 455, 456  
Silk, Dana, 152, 153, 154, 164  
SINA, 165  
Siziba, Shepherd, 523  
Skinner, E.P., 242  
Slack, Alison, 147  
Smit, Jac, 140, 141, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175  
Smith, J., 526  
Smith, O.B., 176  
Solomons, N.W., 053, 177  
Sporrek, A., 409  
Staal, J.S., 358  
Stevenson, C., 410, 411  
Stewart, F., 014  
Streiffeler, Friedhelm, 178, 179, 180, 300  
Stren, Richard, 088, 181, 182  
Suda, P.O., 275  
Sumberg, James, 034, 400, 412, 413  
Support Group on Urban Agriculture, 183  
Swindell, K., 184

## T

Tanzania, Republic of, 414  
Tengbeh, George, 489  
Tevera, Daniel S., 185, 496  
Thiaw, S.A., 186  
Tibaijuka, A.K., 415  
Tinker, Irene, 187, 188, 189, 190, 191, 192, 193, 194, 313  
Tliombiano, T., 241  
Tolvanen, A.M., 283  
Tomkins, A.M., 284  
Tricaud, P.M., 276, 281  
Tripp, Aili Mari, 416, 417  
Tukay, P. 418

## U

Undugu Society of Kenya, 359  
UNDP, 195, 196  
UNICEF, 197, 198, 199  
Urban Resource System, 200

## V

Van der Blik, Judy A., 201, 202  
Van Staveren, W.A., 022  
Vennetier, P., 203, 296  
Villien, François, 294  
Vis, H.L., 204  
Viteri, F.E., 205  
Von Braun, Joachim, 206

## W

Wade, Isabel, 207, 208, 209, 210, 211  
Wa-Githumo, M., 360  
Water-Buyers, Ann, 202, 212  
Wekwete, K.H., 213, 314, 315, 442, 443  
Wilson, R. Trevor, 214  
Winkers, D., 215  
World Bank, 216  
World Sustainable Agriculture Association, 217  
Wray, J.D., 218

## Z

Zakariah, Sawudatu, 248  
Zall, Dieudonné, 260  
Zimbe, I.N., 423  
Zziwa, Samuel, 435, 436, 437

## Region and country index

	<i>page</i>	<i>entry</i>
Africa, general	5	001—218
Central Africa, general	37	287
Eastern Africa, general	40	304—315
Northern Africa, general	26	no entry
Southern Africa, general	55	441—443
Western Africa, general	28	226—232
Algeria	26	no entry
Angola	55	005
Benin	29	233—236
Botswana	55	444—445
Burkina Faso	29	237—242
Burundi	41	no entry
Cameroon	37	288—291
Cape Verde	30	no entry
Central African Republic	38	292—294
Chad	38	no entry
Comoros	56	no entry
Congo Brazzaville	38	295—296
Congo Kinshasa	38	297—301

	<i>page</i>	<i>entry</i>
Djibouti	41	no entry
Egypt	26	219—221
Equatorial Guinea	39	no entry
Eritrea	41	no entry
Ethiopia	42	316—328
Gabon	39	302—303
Ghana	30	063, 243—249
Guinea	31	no entry
Guinea Bissau	31	250—252
Ivory Coast	32	253—254
Kenya	43	005, 329—360
Lesotho	56	no entry
Liberia	32	no entry
Libya	27	no entry
Madagascar	56	no entry
Malawi	56	448
Mali	32	255—260
Mauritania	33	no entry
Mauritius	56	no entry
Mayotte	56	no entry
Morocco	27	no entry
Mozambique	57	005, 449—456
Namibia	57	no entry
Niger	33	no entry
Nigeria	33	261—276
Republic of South Africa	57	457—469
Reunion	59	no entry
Rwanda	46	361—362
Sao Tomé and Príncipe	39	no entry

	<i>page</i>	<i>entry</i>
Senegal	35	277—280
Seychelles	46	no entry
Sierra Leone	35	281
Somalia	47	no entry
Sudan	27	222—223
Swaziland	59	no entry
Tanzania	47	005, 363—418
The Gambia	35	282—284
Togo	36	285—286
Tunisia	27	224—225
Uganda	52	063, 419—440
Zambia	59	470—488
Zimbabwe	61	063, 489—526





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