### Abbreviations and acronyms : Abréviations et sigles

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABU</td>
<td>Ahmadu Bello University, Nigeria</td>
</tr>
<tr>
<td>ACEMA</td>
<td>Association Euro-Africaine des Centres de Mécanisation Agricole, Cameroon and France</td>
</tr>
<tr>
<td>ACIAR</td>
<td>Australian Centre for International Agricultural Research, Australia</td>
</tr>
<tr>
<td>ACREMA</td>
<td>Atelier de Construction et de Réparations de Matériel Agricole, Niger</td>
</tr>
<tr>
<td>ACT</td>
<td>Association de Coopération Technique, Belgium</td>
</tr>
<tr>
<td>ADP</td>
<td>animal draft power</td>
</tr>
<tr>
<td>ADPDP</td>
<td>Animal Draft Power Development Project, Kenya</td>
</tr>
<tr>
<td>ADPRDP</td>
<td>Animal Draft Power Research and Development Project, Zambia</td>
</tr>
<tr>
<td>ADPRDP</td>
<td>Animal Draft Power Research and Development Project, Magoye, Zambia</td>
</tr>
<tr>
<td>AETC</td>
<td>Agricultural Engineering Technical Committee, Zambia</td>
</tr>
<tr>
<td>AFMA</td>
<td>Atelier de Fabrication de Matériel Agricole, Niger</td>
</tr>
<tr>
<td>AFRC</td>
<td>Agriculture and Food Research Council, UK</td>
</tr>
<tr>
<td>AFRC-Engineering</td>
<td>AFRC Institute of Engineering Research, UK</td>
</tr>
<tr>
<td>AFVP</td>
<td>Association Française des Volontaires du Progrès, France</td>
</tr>
<tr>
<td>AG-ENG</td>
<td>Agricultural Engineering International Conference</td>
</tr>
<tr>
<td>AMRDU</td>
<td>Agricultural Machinery Research and Development Unit, Zambia</td>
</tr>
<tr>
<td>AGRIMA</td>
<td>National import agency for agricultural implements, Guinée</td>
</tr>
<tr>
<td>ANTRAC</td>
<td>animal traction</td>
</tr>
<tr>
<td>ARMA</td>
<td>Cellule de l'Artisanat Rural et Machinisme Agricole, Niger</td>
</tr>
<tr>
<td>ASAE</td>
<td>American Society of Agricultural Engineers</td>
</tr>
<tr>
<td>AT</td>
<td>animal traction</td>
</tr>
<tr>
<td>BBF</td>
<td>broad-bed and furrow (system of cultivation)</td>
</tr>
<tr>
<td>BBG</td>
<td>butteurs-billonleurs gambiens</td>
</tr>
<tr>
<td>BDPFA</td>
<td>Bureau pour le Développement de la Production Agricole, France</td>
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<tr>
<td>BIT</td>
<td>Bureau International du Travail, Switzerland</td>
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<td>BNDN</td>
<td>Banque Nationale pour le Développement Agricole</td>
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<tr>
<td>BSI</td>
<td>British Standards Institute, UK</td>
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<tr>
<td>C</td>
<td>Cedi (Ghanaian currency)</td>
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<td>CARDER</td>
<td>Centre d’Action Regionale pour le Développement Rural, Benin</td>
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<tr>
<td>CARM</td>
<td>Projet Centres d’Animation Rurale Mixte, Mali</td>
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<tr>
<td>CATMI</td>
<td>Camerounian Agricultural Tools Manufacturing Industry, Cameroon</td>
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<tr>
<td>CBPP</td>
<td>contagious bovine pleuropneumonia</td>
</tr>
<tr>
<td>CCCE</td>
<td>Caisse Centrale de Coopération Economique, France</td>
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<tr>
<td>CDARMA</td>
<td>Centre de Développement et d’Artisanat Rural en Machinisme Agricole, Niger</td>
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<td>CEEMA</td>
<td>Centre d’Expérimentation et d’Enseignement du Machinisme Agricole, Mali</td>
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<tr>
<td>CEEMAT</td>
<td>Centre d’Études et d’Expérimentation du Machinisme Agricole Tropical, France</td>
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<tr>
<td>CFA</td>
<td>Centre de Formation Agricole, Togo</td>
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<tr>
<td>CFCF</td>
<td>Le Comité Français de Lutte contre la Faim, France</td>
</tr>
<tr>
<td>CFDT</td>
<td>Compagnie Française pour le Développement des Fibres Textiles, France</td>
</tr>
<tr>
<td>CFJA</td>
<td>Centre de Formation des Jeunes Agriculteurs, Niger</td>
</tr>
<tr>
<td>CIAE</td>
<td>Central Institute of Agricultural Engineering, India</td>
</tr>
<tr>
<td>CIDA</td>
<td>Canadian International Development Agency, Canada</td>
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<tr>
<td>CIDT</td>
<td>Compagnie Ivoirienne pour le Développement des Textiles, Côte d’Ivoire</td>
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<tr>
<td>CILSS</td>
<td>Comité permanent inter-Etats de Lutte contre la Sécheresse dans le Sahel, Burkina Faso</td>
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<td>CIMA</td>
<td>Centre Ivoirien du Machinisme Agricole, Côte d’Ivoire</td>
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<td>CIMMYT</td>
<td>Centro Internacional de Mejoramiento de Matz y Trigo, Mexico</td>
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<td>CIPEA</td>
<td>Centre International pour l’Élevage en Afrique (ILCA), Ethiopia</td>
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<tr>
<td>CIRAD</td>
<td>Centre de Coopération Internationale en Recherche Agronomique pour le Développement</td>
</tr>
<tr>
<td>cm</td>
<td>centimetre (unit of length)</td>
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<tr>
<td>CMDT</td>
<td>Compagnie Malienne pour le Développement des Textiles, Mali</td>
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<tr>
<td>CNCA</td>
<td>Caisse Nationale de Crédit Agricole</td>
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<td>CNCAS</td>
<td>Caisse Nationale de Crédit Agricole du Sénégal</td>
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<tr>
<td>CNEARC</td>
<td>Centre national d'études agronomiques des régions chaudes, France</td>
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<td>CNRA</td>
<td>Centre National de Recherches Agronomiques de Bambye, Senegal</td>
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<td>COBEMAG</td>
<td>Coopérative Béninoise de Matériel Agricole, Benin</td>
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<tr>
<td>COOPIBO</td>
<td>A non-governmental development organization, Belgium</td>
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<tr>
<td>CPA</td>
<td>Centre de Perfectionnement Artisanal, Senegal</td>
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*West Africa Animal Traction Network, 1988 Workshop*
<table>
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<tr>
<th>Abbreviation</th>
<th>Full Form</th>
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<tr>
<td>CPR</td>
<td>Centre de Promotion Rurale, Niger</td>
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<td>CPT</td>
<td>Centre de Perfectionnement Technique, Niger</td>
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<tr>
<td>CRA</td>
<td>Centre de Recherches Agronomiques</td>
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<tr>
<td>CRDI</td>
<td>Centre de Recherche pour le Développement International, Canada</td>
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<tr>
<td>CTA</td>
<td>Centre Technique de Coopération Agricole et Rurale, Pays-Bas</td>
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<tr>
<td>CTA</td>
<td>Technical Centre for Agricultural and Rural Cooperation, The Netherlands</td>
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<tr>
<td>CTVM</td>
<td>Centre for Tropical Veterinary Medicine, UK</td>
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<tr>
<td>CVF</td>
<td>Centre Villageois de Formation, Niger</td>
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<tr>
<td>DAP</td>
<td>draft (or draught) animal power</td>
</tr>
<tr>
<td>DE</td>
<td>Département Elevage</td>
</tr>
<tr>
<td>Dh</td>
<td>Dinar (Moroccan currency)</td>
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<tr>
<td>DMA</td>
<td>Division du Machinery Agricole, Mali</td>
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<tr>
<td>DNFAR</td>
<td>Direction Nationale de la Formation et de l'Animation Rurales, Mali</td>
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<tr>
<td>DRDR</td>
<td>Direction Régionale de Développement Rural, Togo</td>
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<tr>
<td>DRSPR</td>
<td>Division de Recherches sur les Systèmes de Production Rurale, Mali</td>
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<tr>
<td>DSA</td>
<td>Département des Systèmes Agraires</td>
</tr>
<tr>
<td>DSPA</td>
<td>Direction des Services de la Production Agricole, Senegal</td>
</tr>
<tr>
<td>E</td>
<td>English language publication</td>
</tr>
<tr>
<td>EEC</td>
<td>European Economic Community</td>
</tr>
<tr>
<td>EF</td>
<td>Publication available in separate English and French editions</td>
</tr>
<tr>
<td>E/F</td>
<td>Single publication, partly in English and partly in French</td>
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<tr>
<td>EFSAIP</td>
<td>Evaluation of Farming Systems and Agricultural Implements Project, Botswana</td>
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<tr>
<td>EIU</td>
<td>Economist Intelligence Unit, UK</td>
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<tr>
<td>ENDA</td>
<td>Environnement et Développement dans le Tiers Monde, Senegal</td>
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<tr>
<td>Environment and Development in the Third World, Senegal</td>
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<tr>
<td>ET</td>
<td>Erreur type (standard error)</td>
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<tr>
<td>E-U</td>
<td>Etats-Unis (United States of America)</td>
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<tr>
<td>F</td>
<td>French language publication</td>
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<tr>
<td>FACU</td>
<td>Federal Agricultural Coordinating Unit, Nigeria</td>
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<tr>
<td>FAO</td>
<td>Food and Agriculture Organization of the United Nations, Italy</td>
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<tr>
<td>FCFA</td>
<td>Franca de la Communauté financière africaine (CFA currency)</td>
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<tr>
<td>FED</td>
<td>Fonds Européen de Développement (European Development Fund), Belgium</td>
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<tr>
<td>FF</td>
<td>Franc français (French currency)</td>
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<td>FG</td>
<td>Franc guinéen (Guinea currency)</td>
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<tr>
<td>FRG</td>
<td>Federal Republic of Germany</td>
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<tr>
<td>FSSP</td>
<td>Farming Systems Support Project, USA</td>
</tr>
<tr>
<td>g</td>
<td>gram (unit of mass)</td>
</tr>
<tr>
<td>G</td>
<td>German language publication</td>
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<tr>
<td>GARD</td>
<td>Gambian Agricultural Research and Diversification Project, The Gambia</td>
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<tr>
<td>GATE</td>
<td>German Appropriate Technology Exchange, GTZ, Germany (FRG)</td>
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<tr>
<td>GP</td>
<td>Groupements de Producteurs</td>
</tr>
<tr>
<td>GRDR</td>
<td>Groupe de recherche et de réalisations pour le développement rural dans le tiers monde, France</td>
</tr>
<tr>
<td>GRET</td>
<td>Groupe de Recherche et d'Échanges Technologiques, France</td>
</tr>
<tr>
<td>GTZ</td>
<td>Deutsche Gesellschaft für Technische Zusammenarbeit GmbH, Federal Republic of Germany</td>
</tr>
<tr>
<td>h</td>
<td>hour</td>
</tr>
<tr>
<td>ha</td>
<td>hectare</td>
</tr>
<tr>
<td>hab</td>
<td>habitants (inhabitants)</td>
</tr>
<tr>
<td>HTE</td>
<td>Hommes, Terre et Eau, Morocco</td>
</tr>
<tr>
<td>IAC</td>
<td>Instituto Agronômico de Campinas, Brazil</td>
</tr>
<tr>
<td>IAPAR</td>
<td>Instituto Agronômico do Paraná, Brazil</td>
</tr>
<tr>
<td>IAR</td>
<td>Institute for Agricultural Research, Nigeria</td>
</tr>
<tr>
<td>IARC</td>
<td>international agricultural research centre</td>
</tr>
<tr>
<td>IBGE</td>
<td>Fundação Instituto Brasileiro de Geografia e Estatística, Brazil</td>
</tr>
<tr>
<td>ICRISAT</td>
<td>International Crops Research Institute for the Semi-Arid Tropics, India</td>
</tr>
<tr>
<td>IDESSA</td>
<td>Institut des Savanes, Côte d'Ivoire</td>
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<tr>
<td>IDRC</td>
<td>International Development Research Centre, Canada</td>
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<tr>
<td>IEMVT</td>
<td>Institut d'Élevage et de Médecine Vétérinaire des Pays Tropicaux, France</td>
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<td>IER</td>
<td>Institut d'Économie Rurale, Mali</td>
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<td>IITA</td>
<td>International Institute of Tropical Agriculture, Nigeria</td>
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<tr>
<td>ILCA</td>
<td>International Livestock Centre for Africa, Ethiopia</td>
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<tr>
<td>ILO</td>
<td>International Labour Organisation, Switzerland</td>
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<tr>
<td>IMF</td>
<td>International Monetary Fund, USA</td>
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<td>Institut national des recherches agronomiques, France</td>
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<td>INRAN</td>
<td>Institut national des recherches agronomiques du Niger, Niger</td>
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<td>IRAT</td>
<td>Institut de Recherches Agronomiques Tropicales, France</td>
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<tr>
<td>IRDP</td>
<td>Integrated Rural Development Programme, Zambia</td>
</tr>
<tr>
<td>IRR</td>
<td>internal rates of return</td>
</tr>
<tr>
<td>IRRI</td>
<td>International Rice Research Institute, Manila, Philippines</td>
</tr>
<tr>
<td>ISC</td>
<td>International Organization for Standardization</td>
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<tr>
<td>ISRA</td>
<td>Institut Sénégalais de Recherches Agricoles, Senegal</td>
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<tr>
<td>Abbreviation</td>
<td>Description</td>
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<tr>
<td>ITDG</td>
<td>Intermediate Technology Development Group, UK</td>
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<tr>
<td>K</td>
<td>Kwacha (Zambian currency)</td>
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<td>KNARDA</td>
<td>Kano State Agricultural and Rural Development Authority, Nigeria</td>
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<tr>
<td>KU</td>
<td>Katholieke Universiteit (Leuven), Belgium</td>
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<tr>
<td>kg</td>
<td>kilogram</td>
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<tr>
<td>km</td>
<td>kilometre</td>
</tr>
<tr>
<td>kW</td>
<td>kilowatt</td>
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<tr>
<td>l</td>
<td>litre</td>
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<td>LECSA</td>
<td>Laboratoire d'Etudes Comparées des Systèmes Agraires, France</td>
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<tr>
<td>m</td>
<td>metre</td>
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<tr>
<td>mm</td>
<td>millimetre</td>
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<tr>
<td>MDR</td>
<td>Ministère du Développement Rural</td>
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<tr>
<td>MDRAC</td>
<td>Ministère du Développement Rural et de l'Action Coopérative, Benin</td>
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<tr>
<td>MEDA</td>
<td>Mennonite Economic Development Associates, Canada</td>
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<tr>
<td>MJ</td>
<td>megajoule (unit of energy or work)</td>
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<td>MOP</td>
<td>Mbeya Oxezitation Project, Tanzania</td>
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<tr>
<td>MRIDEP</td>
<td>Mbeya Rural Integrated Development Project, Tanzania</td>
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<tr>
<td>MRU</td>
<td>Farm Machinery Research Unit, Zambia</td>
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<tr>
<td>MSU</td>
<td>Michigan State University, USA</td>
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<tr>
<td>mm</td>
<td>millimetre</td>
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<tr>
<td>MOA</td>
<td>Ministry of Agriculture</td>
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<tr>
<td>N</td>
<td>Naira (Nigerian currency)</td>
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<tr>
<td>N</td>
<td>newton (unit of force approximately equivalent to 0.1 kg weight)</td>
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<tr>
<td>NAPRI</td>
<td>National Animal Production Research Institute, Nigeria</td>
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<tr>
<td>NARS</td>
<td>National Agricultural Research System</td>
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<td>NASS</td>
<td>National Agricultural Sample Survey, The Gambia</td>
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<td>NBD</td>
<td>North Bank Division, The Gambia</td>
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<tr>
<td>NDP</td>
<td>National Development Plan</td>
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<tr>
<td>NGO</td>
<td>Non-governmental organization</td>
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<tr>
<td>NIB</td>
<td>net incremental benefits</td>
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<td>NLDP</td>
<td>National Livestock Development Project, Nigeria</td>
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<td>NORRIP</td>
<td>Northern Region Rural Integrated Program, Ghana</td>
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<td>NPA</td>
<td>Nouvelle Politique Agricole</td>
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<tr>
<td>NPW</td>
<td>net present worth</td>
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<td>NSARDA</td>
<td>Sokoto State Agricultural and Rural Development Authority, Nigeria</td>
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<td>NWIRDP</td>
<td>North Western Province the Integrated Rural Development Project, Zambia</td>
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<td>OACV</td>
<td>Opération Arachide et Cultures Vivrières, Mali</td>
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<td>OAU</td>
<td>Organization of African Unity, Ethiopia</td>
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<td>ODA</td>
<td>Overseas Development Administration, UK</td>
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<tr>
<td>ODA</td>
<td>Overseas Development Administration, UK</td>
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<td>ODR</td>
<td>Opération de Développement Rural, Mali</td>
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<tr>
<td>OHV</td>
<td>Opération Haute Vallée, Mali</td>
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<tr>
<td>ONAHA</td>
<td>Office National des Aménagements Hydro-Agricoles, Niger</td>
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<tr>
<td>ONCAD</td>
<td>Office National de Coopération et d'Assistance pour le Développement</td>
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<tr>
<td>ONG</td>
<td>Organisation non gouvernementale</td>
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<tr>
<td>ONUDI</td>
<td>Organisation des Nations-Unis pour le Développement Industriel, Autriche (United Nations Industrial Development Organization, Austria)</td>
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<tr>
<td>OUA</td>
<td>l'Organisation de l'Unité Africaine</td>
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<tr>
<td>OXFAM</td>
<td>A non governmental development organization (formerly Oxford Committee for Famine Relief, UK)</td>
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<tr>
<td>PA</td>
<td>Programme Agricole, Senegal</td>
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<tr>
<td>PAFSAT</td>
<td>Project for Promotion of Adapted Farming Systems based on Animal Traction, Cameroon</td>
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<tr>
<td>PDRN</td>
<td>Projet de Développement Rural de Notre, Togo</td>
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<tr>
<td>PE</td>
<td>Premier Equipement</td>
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<tr>
<td>PES</td>
<td>Division de la Programmation, de l'Evaluation et des Statistiques, Togo</td>
</tr>
<tr>
<td>PhD</td>
<td>Doctor of Philosophy degree</td>
</tr>
<tr>
<td>PIB</td>
<td>production intérieure brute</td>
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<tr>
<td>PIDAC</td>
<td>Projet intégré de développement agricole en Basse Casamance, Senegal</td>
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<tr>
<td>PPMU</td>
<td>Planning, Programming and Monitoring Unit, The Gambia</td>
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<td>PROPTA</td>
<td>Projet pour la Promotion de la Traction Animale, Togo</td>
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<tr>
<td>PTAS</td>
<td>Postgraduate Training Award Scheme, UK</td>
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<td>RESPAO</td>
<td>Réseau d'Etude des Systèmes de Production en Afrique de l'Ouest, Burkina Faso</td>
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<tr>
<td>RFA</td>
<td>République fédérale d'Allemagne (West Germany)</td>
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<tr>
<td>RIDEF</td>
<td>Rural Integrated Development Project, Tanzania</td>
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<tr>
<td>RNAM</td>
<td>Regional Network for Agricultural Machinery, The Philippines</td>
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<tr>
<td>ROATA</td>
<td>Réseau Ouest-africain de la Traction Animale</td>
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<tr>
<td>RR</td>
<td>réversible à ressort (type of tine)</td>
</tr>
<tr>
<td>rpm</td>
<td>revolutions per minute</td>
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<tr>
<td>s, or sec</td>
<td>second</td>
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<tr>
<td>SACCAR</td>
<td>Southern African Centre for Cooperation in Agricultural Research</td>
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<tr>
<td>SAFGRAD</td>
<td>Semi-Arid Food Grain Research and Development Programme of the Organization of African Unity, Burkina Faso</td>
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<tr>
<td>SAT</td>
<td>Semi-arid tropics</td>
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<tr>
<td>SEZ</td>
<td>Société d'élevage zairoise, Zaire</td>
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<tr>
<td>SISCOMA</td>
<td>Société Industrielle Sénégalaise de Constructions Mécaniques et de Matériels Agricoles</td>
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<tr>
<td>Acronym</td>
<td>Description</td>
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<tr>
<td>SISMAR</td>
<td>Société Industrielle Sahélienne de Mécaniques, de Matériaux Agricoles et de Représentations, Senegal</td>
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"Animal Traction for Agricultural Development"