

List of Abbreviations

4Rs	right product, rate, time and method of application of fertilizers	GIS	Geographic Information System
ac	acre	ha	hectare
AE	agronomic efficiency	HP	high potential
AEZ	agro-ecological zone	ISFM	Integrated Soil Fertility Management
AfSIS	Africa Soil Information Service	K	potassium
AGRA	Alliance for a Green revolution in Africa	KCl	potassium chloride
ai	Aridity Index	kg	kilogram
B	Boron	KSh	Kenya Shilling
BNF	biological nitrogen fixation	LP	Linear programming
CA	conservation agriculture	LP	low potential
Ca	calcium	masl	metres above sea-level
C	carbon	meq	milliequivalent
CAIMA	Centrale d'Approvisionnement en Intrants et Matériels Agricoles, Niger	Mg	magnesium
CAN	calcium ammonium nitrate	MKW	Malawi kwacha
CEC	cation exchange capacity	Mn	manganese
cm	centimetre	Mo	molybdenum
Cu	copper	MOP	muriate of potash (KCl)
DAP	diammonium phosphate	mt	metric ton
DE	Distance from Equator	MZM	Mozambique metical
DEM	digital elevation model	N	nitrogen
EOR	economically optimal rate	Na	sodium
FAO	Food and Agriculture Organization of the United Nations	NGO	non-governmental organisation
FBO	farmer-based organization	NPK	nitrogen, phosphorus, potassium
FCFA	CFA franc	OFRA	Optimising Fertilizer Recommendations In Africa
Fe	iron	OFT	on-farm trials
FGN	Federal Government of Nigeria	OM	organic matter
FMSP	Federal Market Stabilization Program, Nigeria	P	phosphorous
FOT	Fertilizer optimization tool	PET	potential evapotranspiration
FYM	farmyard manure	ppm	parts per million
GAP	good agricultural practices	REC	current recommended rate (of fertilizer application)
GDP	gross domestic product	RMT	research-managed trials
GH₵	Ghana cedi	RP	rock phosphate
		RwF	Rwanda franc
		S	sulphur

SARI	Savanna Agricultural Research Institute, Ghana	TSP	triple superphosphate
SOC	soil organic carbon	UgSh	Uganda Shilling
SSA	Sub-Saharan Africa	WAP	weeks after planting
SSP	single superphosphate	WAT	weeks after transplanting
t	ton	yr	year
TA	Tropical Alpine	ZMK	Zambia kwacha
ts	Temperature Seasonality	Zn	zinc

List of Crops and Other Plants with Scientific Names

Azolla	<i>Azolla spp.</i>	Oil palm	<i>Elaeis guineensis</i>
Banana	<i>Musa acuminata (AAA-EA)</i>	Pearl millet	<i>Pennisetum glaucum</i>
Barley	<i>Hordeum vulgare</i>	Pigeonpea	<i>Cajanus cajan</i>
Cabbage, kale	<i>Brassica oleracea</i>	Pineapple	<i>Ananas comosus</i>
Cashew nut	<i>Anacardium occidentale</i>	Plantain	<i>Musa × paradisiaca</i>
Cassava	<i>Manihot esculenta</i>	Pyrethrum	<i>Chrysanthemum spp</i>
Cocoa	<i>Theobroma cacao</i>	Rice	<i>Orizae sativa, Orizae glaberrima</i>
Cocoyam	<i>Xanthosoma spp</i>	Rubber	<i>Hevea brasiliensis</i>
Coffee	<i>Coffea spp</i>	Sesame	<i>Sesamum indicum</i>
Common bean	<i>Phaseolus vulgaris</i>	Sisal	<i>Agave sisalana</i>
Cotton	<i>Gossypium spp</i>	Sorghum	<i>Sorghum bicolor</i>
Cowpea	<i>Vigna unguiculata</i>	Soybean	<i>Glycine max</i>
Faba bean	<i>Vicia faba</i>	Striga	<i>Striga spp</i>
Finger millet	<i>Eleusine coracana</i>	Sunflower	<i>Helianthus annuus</i>
Green gram	<i>Vigna radiata</i>	Sweet potato	<i>Ipomoea batatas</i>
Groundnut	<i>Arachis hypogaea</i>	Taro	<i>Colocasia esculenta</i>
Irish potato	<i>Solanum tuberosum</i>	Tea	<i>Camellia sinensis</i>
Kale, cabbage	<i>Brassica oleracea</i>	Teff	<i>Eragrostis tef</i>
Kikuyu grass	<i>Pennisetum clandestinum</i>	Tiger nut	<i>Cyperus esculentus</i>
Lablab	<i>Lablab purpureus</i>	Tobacco	<i>Nicotiana tabacum</i>
Maize	<i>Zea mays</i>	Wheat	<i>Triticum aestivum</i>
Mango	<i>Mangifera indica</i>	Yam	<i>Dioscorea alata</i>
Mucuna	<i>Mucuna pruriens</i>		