C A S S A V A I N F O R M A T I O N C E N T E R

C I A T

C A S S A V A
T H E S A U R U S

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C A S S A V A T H E S A U R U S

CONTENTS

FOREWORD

It is a pleasure to introduce this thesaurus of cassava terms, presently being used by the Cassava Information Center at CIAT. A thesaurus of terms is, without a doubt, the backbone of any information analysis and retrieval system. This thesaurus is the product of a major effort made by a world authority in this field, Donald Leatherdale, whose vast experience was invaluable in structuring the numerous terms that have to be interrelated in a work such as this.

Don Leatherdale, a Program Officer in the Information Sciences Division of the International Development Research Centre in Canada, was one of the team responsible for the design and implementation of AGRIS as of 1972. Since 1974 his work has involved training people, mainly in developing countries, in AGRIS methods; developing controlled vocabularies for use with specialized agricultural information centers; and establishing regional documentation centers in different parts of the world. He soon expects to be devoting the greater part of his time to improving the retrieval capabilities of AGRIS.

Before 1972, Don Leatherdale developed the Canadian Agricultural Thesaurus for the Canadian Department of Agriculture; before that time, he worked for the Commonwealth Agricultural Bureaux and on pesticide information for Imperial Chemical Industries.

The usefulness of this work is evident not only to the Cassava Information Center at CIAT, but also to other information projects that may adapt this thesaurus to their particular needs and interests. On behalf of CIAT's information personnel I would like to express our sincere gratitude to Don Leatherdale for this major contribution to the improvement of information management.

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INTRODUCTION

A structured vocabulary or thesaurus was considered an essential part of the system when the Cassava Information Centre was being organized at the Centro Internacional de Agricultura Tropical (CIAT) in 1973. A provisional thesaurus was therefore compiled, with three main aims in mind: firstly, it was intended to assist the input operations, by which the world's literature on cassava was being identified, acquired and abstracted; secondly, it was hoped that it would act as an efficient interface between the data base (document collection) and users; and thirdly, it was provided with a categorized section that indicated the subject scope of the Cassava Information Centre's activities.

Over the intervening four years, the thesaurus has been used as the basis for the indexing of the cassava literature, as well as for organizing retrieval strategy. Experience with it has, as had been hoped, shown up areas that were in need of extension, deletion or change. It is now stabilized; or, more truly, in as stable a state as a vocabulary can ever be expected to be; for concepts change with time and advances in knowledge bring fresh terminology in their train.

It is our hope that this presentation of the Cassava Thesaurus will prove useful for documentation centres other than the Cassava Information Centre. In its format, it is compatible with other thesauri developed or being developed for use in other specialized agricultural information centres, such as the Thesaurus on Tropical Grain and Forage Legumes, used by the International Institute of Tropical Agriculture (IITA), and the Sorghums/Millets Thesaurus, which is being compiled for use at the International Crops Research Institute for Semi-Arid Tropics (ICRISAT). It is expected that these specialized thesauri will, in turn, be compatible with the controlled vocabulary, on which work will

begin shortly, for use with FAO's International Information System for the Agricultural Sciences and Technology (AGRIS).

The Cassava Thesaurus is divided into two sections. Section 1 is a Categorized Listing, in which the total vocabulary is broken down under thirteen subject headings indicative of the scope of the system. It should be useful as an introduction to the subject, giving as it does the main relationships among the terms. The terms themselves, hereafter referred to as "descriptors," have been chosen as being self-contained. Many of them consequently consist of several words, pre-coordination being thought to be usually preferable to post-coordination. For example, it is more convenient in this system to locate CASSAVA STARCH as an entity, rather than to retrieve CASSAVA and STARCH separately.

In the Categorized Listing, major descriptors, which are few in number, appear to the left of the page. Descriptors narrower in meaning are prefixed with a hyphen (-), and may occur at several different levels. No detail is provided in this section, except that related terms are included and prefixed with an asterisk (*). The following example has been broken down to clarify the arrangement within the Categorized Listing:

PROCESSING	* MECHANIZATION
	* NUTRIENT LOSS
- DRYING	* CENTRIFUGING
	* SCREENING
- SOLAR DRYING	
- CENTRIFUGING	* DRYING
	* SCREENING

PROCESSING is a main descriptor, having no broader term. MECHANIZATION and NUTRIENT LOSS are terms related to PROCESSING. (Related terms are not necessarily included within the same category; thus in this example, PROCESSING falls into Category D (Initial Processing of Cassava), whereas

MECHANIZATION is in Category M (Economics, Development and Research) and NUTRIENT LOSS is in Category K (Cassava in Relation to Animal and Human Nutrition). The categorized linking, therefore, gives cohesion to the total vocabulary. To return to a consideration of the example, DRYING and CENTRIFUGING are shown as narrower terms of PROCESSING, and SOLAR DRYING is a narrower term of DRYING. CENTRIFUGING is also shown as related to DRYING and is itself related to SCREENING. The interplay between the descriptors is thus displayed, and this format may often be of assistance to both the indexer and the enquirer.

Apart from this single advantage, the Categorized Listing is of limited application because it does not include the full array of relationships among the descriptors. These are to be found in Section 2, the Alphabetical Listing, which is the more important section of the thesaurus. The alphabetical sequence is word by word, rather than letter by letter:

CHICKWANGUE
CHILE SALTPETRE
CHILEAN NITRATE
CHIPS

The symbols used for term relationships are those now conventionally adopted. Broader Terms, Narrower Terms and Related Terms are indicated by BT, NT and RT, respectively. The use of RT is equivalent to the instruction "See also." Some descriptors are followed by a Scope Note (SN), which is usually a brief statement qualifying or restricting the usual use of a word to the specific meaning in this vocabulary. The synonyms, quasi-synonyms or pseudo-synonyms that a chosen descriptor replaces are indicated by UF (Use for). The reciprocal statement USE is used with non-descriptors, which are printed in lower case as an additional aid for distinguishing them from descriptors, which are printed in capitals. A capital letter after all but a handful of descriptors indicates the category in which the descriptor is placed in the Categorized Listing.

The following examples should clarify these expressions for those to whom they are not yet familiar:

VIROSES	C	Descriptor/Category
SN Includes pathogens		Scope Note
UF DISEASES (VIRUS)		Use for these synonyms (non-descriptor)
VIRUS DISEASES		
BT DISEASES AND PATHOGENS		Broader or generic Term
NT CASSAVA BROWN STREAK VIRUS		Narrower or included Terms
CASSAVA LEAF CURL		
CASSAVA MOSAIC VIRUS		
RT DISEASE TRANSMISSION		Related Term
Virus diseases		Non-descriptor
USE VIROSES		Use this descriptor

Exceptionally, a broader term may be enclosed within parentheses, as:

MANIHOT

(BT EUPHORBIACEAE)

This indicates that the term is logically there, but does not appear as a descriptor in this thesaurus. It represents a "bridging term" between this thesaurus and a hypothetical thesaurus of wider scope.

As with the thesaurus used by the International Grain Legume Information Centre (Leatherdale, in press), certain chains of hierarchical descriptors require special mention. The descriptors concerned are exemplified by BACTERIOSES, MYCOSES, INJURIOUS INSECTS and NEMATODES, all of which are in Category C (Diseases, Pests and other Injuries of Cassava). If, for example, one were to include under INJURIOUS INSECTS all the insects that have been known to attack cassava, one would build up a list of narrower

terms of formidable length. With descriptors such as these, therefore, a Scope Note suggests that only the most important be included as narrower terms, the remainder being indexed under the general broader term. This does not, of course, prevent any user of this thesaurus from building in more complete listings if they would be required in particular circumstances.

As has already been mentioned, a thesaurus is not a static statement but rather an ever-evolving organism, reflecting the current state of knowledge. The Cassava Information Centre would welcome suggestions and comments from users of the thesaurus on terms that they consider should be added, altered or otherwise changed.

During the initial work of preparing this thesaurus, I was very efficiently aided by the documentation team at CIAT headed by Fernando Monge, in particular Angela Misas (now Mrs. James Cock) and Jorge Lopez. I was also grateful for the comments and advice tendered by James Cock and by Barry Nestel and Franklin W. Martin of the Cassava Advisory Group. It is now my pleasure to again thank Fernando Monge for those many kindnesses that have enabled the work to proceed so smoothly, and to add the name of Trudy Martinez of the Cassava Information Centre. I am also grateful to Anthony Bellotti, entomologist of the Cassava Production Systems Program at CIAT, whose timely paper with A. van Schoonhoven (in press) on the mite and insect pests of cassava has allowed the thesaurus to reflect current thinking in this area.

Donald Leatherdale

Cali, August 1977

SECTION 1

CATEGORIZED LISTING

A CASSAVA, RELATED STARCH CROPS, AND OTHER SPECIES OF MANIHOT STARCH CROPS

- CASSAVA
  * CASSAVA PRODUCTS
  * MANIHOT ESCULENTA
  - BITTER CASSAVA
    * HCN CONTENT
  - SWEET CASSAVA
    * HCN CONTENT
- ALOCASIA
- AMORPHOPHALLUS
- ARRACACIA
  - ARRACACIA XANTHORHIZA
- BANANA-PLANTAINS
  * MUSA
- BANANAS
  * MUSA
- BEANS
  * PHASEOLUS VULGARIS
- BREADFRUIT
- CEREALS
  - MAIZE
    * MAIZE FLOUR
    * MAIZE MEAL
  - MILLETS
    * MILLET FLOUR
  - RICE
    * GROUND RICE
    * RICE BRAN
    * ROTATIONAL CROPS
  - SORGHUMS
    * GUINEA CORN
    * SORGHUM FLOUR

- COLOCASIA
    - TARO
        * COLOCASIA ESCULENTA
- CURCUMA
- DOLICHOS
    * DOLICHOS LABLAB
- HELIANTHUS TUBEROSUS
- MARANTA
- PACHYRHIZUS
- POTATOES
    * POTATO FLOUR
- SAGO PALMS
    * SAGO
- SWEET-POTATOES
    * IPOMOEA BATATAS
    * YAMS
- YAMS
    * COCOYAMS
        * XANTHOSOMA SAGITTIFOLIUM
    * DIOSCOREA
    * SWEET-POTATOES

MANIHOT

* TAXONOMY
    * IDENTIFICATION

- MANIHOT ANGUSTILOBA
- MANIHOT CARTHAGENENSIS
- MANIHOT DICHOTOMA
- MANIHOT ESCULENTA
    * CASSAVA
- MANIHOT GLAZIOVII
    * CEARA RUBBER
    * MANIHOT OIL
- MANIHOT HEPTAPHYLLA
- MANIHOT JOLYANA
- MANIHOT MELANOBASIS

- MANIHOT PIAUHYENSIS
  * MANIHOT OIL
  * PIAUHY RUBBER
- MANIHOT POHLII
- MANIHOT PRINGLEI
- MANIHOT SAXICOLA
- MANIHOT TWEEDIEANA

PLANT GEOGRAPHY
* ECOLOGY (see below)
* HISTORY
* MAPS

* ECOLOGY
  * CLIMATIC REQUIREMENTS
  * PESTS
  * PHENOLOGY
  * RAINFALL DATA
  * SAVANNAS
  * SOIL REQUIREMENTS
  * WATER REQUIREMENTS (PLANT)

B CASSAVA CULTIVATION AND CULTURAL REQUIREMENTS

CULTIVATION
* AGRICULTURAL EQUIPMENT
  * MECHANIZATION
* CULTIVATION SYSTEMS (see below)
* HARVESTING
  * TIMING
* LAND PREPARATION
* MECHANIZATION

* CULTIVATION SYSTEMS
  * ECONOMICS
  * SOIL FERTILITY
- FALLOWING
- INTER-CROPPING
- ROTATIONAL CROPS
  * COTTON
    * COTTONSEED CAKE
    * COTTONSEED FLOUR
    * COTTONSEED MEAL
  * GROUNDNUT

* GROUNDNUT CAKE
* GROUNDNUT FLOUR
* RICE

- SECONDARY CROPS
  - RUBBER
- SHIFTING CULTIVATION

- CLIMATIC REQUIREMENTS
  * ECOLOGY
  * PHENOLOGY
    * ECOLOGY
    * PLANT PHYSIOLOGY
  * RAINFALL DATA
    * ECOLOGY
    * WATER REQUIREMENTS (PLANT)
  * WATER REQUIREMENTS (PLANT)
  - LIGHT
    * PHOTOPERIOD
      * PLANT DEVELOPMENT
    - ILLUMINATION
    - INSOLATION
  - TEMPERATURE
    * HOT WATER TREATMENTS

- NUTRITIONAL REQUIREMENTS
  * PHOTOSYNTHESIS
  * PLANT PHYSIOLOGICAL PROCESSES
  * SOIL FERTILITY
  - FERTILIZERS
    * K
    * N
    * P
    - AMMONIUM SULPHATE
      * N
      * S
    - CALCIUM SUPERPHOSPHATE
      * Ca
      * P
    - POTASH
      * K
    - POTASSIUM CHLORIDE
      * K
    - SODIUM NITRATE
      * N

- UREA
  - * N
- MANURES
  - * K
  - * N
  - * P
  - DUNG
  - GREEN MANURES
    - CROTALARIA
- SOIL REQUIREMENTS
  - * ECOLOGY
  - * WATER REQUIREMENTS (PLANT)
  - DRAINAGE
  - SOIL AMENDMENTS
    - FERTILIZERS (see above)
    - SOIL CONDITIONERS
  - SOIL FERTILITY
    - * FALLOWING
    - * NUTRITIONAL REQUIREMENTS
    - * SOIL ANALYSIS
    - SOIL IMPOVERISHMENT
  - SOIL MOISTURE
    - * WATER REQUIREMENTS (PLANT)
- WATER REQUIREMENTS (PLANT)
  - * CLIMATIC REQUIREMENTS
  - * ECOLOGY
  - * IRRIGATION
  - * RAINFALL DATA
  - * SOIL MOISTURE
  - * SOIL REQUIREMENTS
  - * TRANSPIRATION
- PLANTING
  - * TIMING
  - SPACING
- PLOUGHING
- PRUNING

- WEEDING
  * PEST CONTROL
  * WEEDS
  - HERBICIDES
    * PLANT-GROWTH SUBSTANCES
  - HOEING
- PROPAGATION
  * PLANT-GROWTH SUBSTANCES (see below)
  * PLANT REPRODUCTION
  * PROPAGATION MATERIALS (see below)
  * PLANT-GROWTH SUBSTANCES
    * HERBICIDES
    * PROPAGATION
  * PROPAGATION MATERIALS
    * CLONES
    * PROPAGATION
    - CUTTINGS
      * STEMS
    - SEED
      * PLANT BREEDING
      * FRUITS
      * GERMINATION
  - GRAFTING
    * DISEASE TRANSMISSION

C DISEASES AND OTHER PESTS OF CASSAVA

PESTS
* DETERIORATION (see below)
* ECOLOGY
* PEST CONTROL
* PEST DAMAGE (see below)
* DETERIORATION
  * MOULDS
  * PESTS
  * STORAGE
* PEST DAMAGE
  * PESTS
  * PLANT INJURIES
  - DEFOLIATION
- DISEASES AND PATHOGENS
  * DISEASE CONTROL
  * EPIDEMIOLOGY
  * ETIOLOGY
  * ISOLATION

- BACTERIOSES * DISEASE TRANSMISSION
  - CASSAVA BACTERIAL BLIGHT * XANTHOMONAS
  - ERWINIA CASSAVAE
  - PSEUDOMONAS
  - XANTHOMONAS * CASSAVA BACTERIAL BLIGHT
  - XANTHOMONAS MANIHOTIS
- MYCOPLASMOSES
- MYCOSES * DISEASE TRANSMISSION
  * MOULDS
    * AFLATOXINS
    * ASPERGILLUS
    * DETERIORATION
  - ALTERNARIA
  - ASPERGILLUS * MOULDS
  - CASSAVA SUPERELONGATION * SPHACELOMA MANIHOTICOLA
  - CERCOSPORA CARIBAEA
  - CERCOSPORA HENNINGSII
  - CERCOSPORA VISCOSAE
  - DIPLODIA
  - FOMES LIGNOSUS
  - FUSARIUM
  - GLOEOSPORIUM MANIHOTIS
  - GLOMERELLA CINGULATA
  - LASIODIPLODIA
  - PHOMA

- PHYTOPHTHORA DRECHSLERI
- PHYLLOSTICTA
- ROSELLINIA
- SCLEROTIUM ROLFSII
- UROMYCES MANIHOTIS

- VIROSES
  - * CHLOROSIS
    - * MINERAL DEFICIENCIES
  - * VECTORS (see below)
  - * VIRUS INHIBITION
  - * DISEASE TRANSMISSION

* VECTORS — * DISEASE TRANSMISSION

- ALEYRODIDAE
- *EUTHRIPS MANIHOTI*

- CASSAVA AFRICAN MOSAIC VIRUS — * MOSAIC DISEASES
- CASSAVA BROWN STREAK VIRUS
- CASSAVA COMMON MOSAIC VIRUS — * MOSAIC DISEASES
- CASSAVA LEAF CURL — * TOBACCO LEAF CURL VIRUS
- CASSAVA MOSAIC VIRUS — * MOSAIC DISEASES
- CASSAVA VEIN MOSAIC VIRUS — * MOSAIC DISEASES
- PHYSIOLOGICAL DISORDERS (PLANT) — * LODGING

- NOXIOUS ANIMALS
  - INJURIOUS INSECTS
    - * ENTOMOLOGY (see below)
    - * VECTORS (see above)

* ENTOMOLOGY
- * INJURIOUS INSECTS
- * INJURIOUS MITES
- * INSECT CONTROL
- * MITE CONTROL

- ALEYRODIDAE
    - BEMISIA
- ANASTREPHA PICKELI
- AONIDOMYTILUS ALBUS
- CECIDOMYIIDAE * GALLS
    - EUDIPLOSIS BRASILIENSIS
- COELOSTERNUS GRANICOLLIS
- COELOSTERNUS MANIHOTI
- COELOSTERNUS NOTATICEPS
- COELOSTERNUS RUGICOLLIS
- ERINNYIS ALOPE
- ERINNYIS ELLO
- EUTHRIPS MANIHOTI
- LAGOCHIRUS OBSOLETUS
- LEUCOPHOLIS RORIDA
- LONCHAEA CHALYBEA * GALLS
- MICROGASTER FLAVIVENTRIS
- PHENACOCCUS
- SCIRTOTHRIPS MANIHOTI
- SILBA PENDULA

- INJURIOUS MITES * ENTOMOLOGY
    - MONONYCHELLUS TANAJOA
    - TETRANYCHUS CINNABARINUS

- TETRANYCHUS URTICAE

- NEMATODES

- RODENTS

- RATS

- WEEDS
  * WEEDING

PEST CONTROL
  * PESTS
  * RESISTANCE
    * PLANT BREEDING
  * WEEDING

- DISEASE CONTROL
  * BIOLOGICAL CONTROL
  * DISEASES AND PATHOGENS

* BIOLOGICAL CONTROL
  * INSECT CONTROL
  * MITE CONTROL

- INSECT AGENTS

- TRICHOGRAMMA MINUTUM

- VIRUS INHIBITION
  * VIROSES

- ANTISERA
  * ANTIBODIES

- HOT WATER TREATMENTS
  * TEMPERATURE

- INSECT CONTROL
  * BIOLOGICAL CONTROL (see above)
  * ENTOMOLOGY

- INSECTICIDES

- MITE CONTROL
  * BIOLOGICAL CONTROL (see above)
  * ENTOMOLOGY

- ACARICIDES

- WEEDING (see Group B above)

D INITIAL PROCESSING OF CASSAVA

PROCESSING	* INDUSTRIAL MACHINERY * LEGAL ASPECTS * MECHANIZATION * NUTRIENT LOSS * VISCOSITY * WATER REQUIREMENTS (PROCESSING) * INDUSTRIALIZATION
- STEEPING	* DETOXIFICATION PROCESSES
- WASHING	* DETOXIFICATION PROCESSES
- DRYING	* CENTRIFUGING * SCREENING * DETOXIFICATION PROCESSES
- SOLAR DRYING	
- BOILING	* DETOXIFICATION PROCESSES
- PEELING	* DETOXIFICATION PROCESSES * RASPING
- RASPING	* DETOXIFICATION PROCESSES * PEELING
- PULPING	* DETOXIFICATION PROCESSES * PULP
- GRINDING	
- PRESSING	
- SCREENING	* CENTRIFUGING
- CENTRIFUGING	* DRYING * SCREENING
- SILTING	
- SILTING AGENTS	
- ALUMINIUM SULPHATE	

- CALCIUM CHLORIDE
- CHLORINE
- SULPHUR DIOXIDE
- SULPHURIC ACID

- FERMENTATION
  - * BEVERAGES
  - * BIOCHEMISTRY (see below)
  - * DETOXIFICATION PROCESSES
  - * FERMENTED PRODUCTS
  - * INDUSTRIAL MICROBIOLOGY (see below)

* BIOCHEMISTRY
  - * ANIMAL NUTRITION
  - * COMPOSITION
  - * FERMENTATION
  - * HUMAN NUTRITION
  - * PHYSIOLOGY
  - * TOXICOLOGY

* INDUSTRIAL MICROBIOLOGY
  - AEROBACTER CLOACAE
  - CORYNEBACTERIUM
  - GEOTRICHUM CANDIDUM
  - RHIZOPUS STOLONIFER

- FORMIC ACID
- LACTIC ACID

- GELATINIZATION
  - * ADHESIVES
- SMALL-SCALE PROCESSING
  - * CASSAVA PRODUCTS
  - * SMALL-SCALE EQUIPMENT

E BREEDING AND GENETICS OF MANIHOT SPECIES AND CULTIVARS

PLANT BREEDING
- * CULTIVARS
  - * ADAPTATION

* CLONES
* CYTOGENETICS (see below)
* GENETICS (see below)
* INHERITANCE
* PLANT FERTILITY (see below)
* RESISTANCE
* PEST CONTROL
* SEED
* SELECTION
* TISSUE CULTURE
* PLANT TISSUES

* CYTOGENETICS
* CHROMOSOMES
* CYTOLOGY
* GENETICS

- MICROSPOROGENESIS * POLLEN

- POLYPLOIDY

* GENETICS
* CYTOGENETICS
* GERMPLASM

- HETEROZYGOSIS

* PLANT FERTILITY
* GERMINATION
* PLANT REPRODUCTION

- BACKCROSSING * CROSSBREEDING

- HYBRIDIZING
* CROSSBREEDING
* HYBRIDS
* CULTIVARS

- MUTATION * COLCHICINE

- SELFING

F MORPHOLOGY OF MANIHOT

PLANT ANATOMY
* PLANT TISSUES
- APICAL MERISTEMS

- FRUITS * CARPELS

* FRUITING
* SEED

- INFLORESCENCES

  - FLOWERS
    * FLOWERING

    - CARPELS
      * FRUITS

    - OVARIES

      - OVULES

    - PEDICELS

    - SEPALS

    - STAMENS

      - ANTHERS

        - POLLEN
          * MICROSPOROGENESIS
          * POLLINATION

- LEAVES
  * CASSAVA LEAVES (VEGETABLE)
  * FOLIAGE
    - CANOPY * TRANSPIRATION
  * PLANT VASCULAR SYSTEM
  * LEAF AREA
    * PHOTOSYNTHESIS

  - PETIOLES

  - STOMATA

- PLANT VASCULAR SYSTEM
  * LEAVES
  * ROOT SYSTEM
  * ROOTS
  * STEMS

- ROOT SYSTEM
  * PLANT VASCULAR SYSTEM
  * ROOTS

- ROOTS
  * PLANT VASCULAR SYSTEM
  * ROOT SYSTEM
  * ROOTING

- STEMS
  - * BRANCHING
  - * CUTTINGS
  - * PLANT VASCULAR SYSTEM
  - * SHOOTS
  - * WASTES
- TUBERS
  - * COMPOSITION
  - * TUBER DEVELOPMENT
  - CORTEX

G PHYSIOLOGY OF MANIHOT

PLANT PHYSIOLOGY

* PLANT PIGMENTS

- PLANT DEVELOPMENT
  - * DEVELOPMENTAL STAGES (see below)
  - * PHOTOPERIOD
  - * PLANT HEIGHT

* DEVELOPMENTAL STAGES

- BRANCHING
  - * STEMS
- FLOWERING
  - * FLOWERS
  - * MATURATION
- FRUITING
  - * FRUITS
- GERMINATION
  - * PLANT FERTILITY
  - * SEED
- ROOTING
  - * ROOTS
- TILLERING
- TUBER DEVELOPMENT
  - * TUBERS

- GROWTH
- MATURATION
  - * FLOWERING
- MORPHOGENESIS

- PLANT REPRODUCTION
  - * PLANT FERTILITY
  - * PROPAGATION

- POLLINATION * POLLEN

- PLANT PHYSIOLOGICAL PROCESSES * NUTRITIONAL REQUIREMENTS

  - NUTRIENT UPTAKE * TRANSLOCATION

  - PHOTOSYNTHESIS * METABOLISM
    * NUTRITIONAL REQUIREMENTS
    * PLANT ASSIMILATION
    * LEAF AREA

  - PLANT ASSIMILATION * PHOTOSYNTHESIS

  - PLANT RESPIRATION

  - TRANSPIRATION * CANOPY
    * WATER REQUIREMENTS (PLANT)

H CHEMICAL COMPOSITION OF MANIHOT

COMPOSITION * ANALYSIS (CHEMICAL)
* BIOCHEMISTRY
* NUTRITIVE VALUE
* TUBERS

- ASH CONTENT

- CARBOHYDRATE CONTENT

  - STARCH CONTENT

  - SUGAR CONTENT

    - FRUCTOSE

    - GLUCOSE * CYANOGENIC GLYCOSIDES
      * DEXTROSE
      * GLUCOSE INDUSTRY

    - MALTOSE

    - SUCROSE

- DRY MATTER

- FAT CONTENT
- FIBRE CONTENT
- HCN CONTENT
  - * BITTER CASSAVA
  - * HCN
  - * SWEET CASSAVA
  - * TOXICITY
- MINERAL CONTENT
  - * MINERALS (see below)
- * MINERALS
  - * FEED CONSTITUENTS
  - * MINERAL DEFICIENCIES
  - - ALUMINIUM
  - - BORON
  - - Ca
    - * CALCIUM SUPERPHOSPHATE
  - - COPPER
  - - IRON
  - - K
    - * FERTILIZERS
    - * MANURES
    - * POTASH
    - * POTASSIUM CHLORIDE
  - - MAGNESIUM
  - - MANGANESE
  - - MOLYBDENUM
  - - P
    - * CALCIUM SUPERPHOSPHATE
    - * FERTILIZERS
    - * MANURES
  - - S
    - * AMINO ACIDS
    - * AMMONIUM SULPHATE
  - - SODIUM
  - - Zn
- OXALIC ACID
- PROTEIN CONTENT
  - * PROTEINS

* CASSAVA CHEESE
* N
* PROTEIN ENRICHMENT
* YEAST PRODUCTION

- AMINO ACIDS
  - ALANINE
  - ARGININE
  - CYSTEINE
  - CYSTINE
  - GLYCINE
  - HISTIDINE
  - LYSINE
  - METHIONINE
  - ORNITHINE
  - THREONINE
  - TRYPTOPHANE
  - TYROSINE
  - VALINE

* S
* LINAMARIN
* LOTAUSTRALIN

- VITAMIN CONTENT
  - ASCORBIC ACID
  - NICOTINIC ACID
  - VITAMIN A
  - VITAMIN B
    - RIBOFLAVIN
    - THIAMIN

- VITAMIN B12
  - CYANOCOBALAMIN
  - HYDROXOCOBALAMIN
  - NITRITOCOBALAMIN
- WATER CONTENT

I PRODUCTS AND USES OF CASSAVA (except for livestock feeding)

CASSAVA PRODUCTS
* CASSAVA
* LEGAL ASPECTS
* PRICES
* SMALL-SCALE PROCESSING
* USES

- FRESH PRODUCTS
  - CASSAVA LEAVES (VEGETABLE) * LEAVES
  - CASSAVA TUBERS (VEGETABLE) * DRIED TUBERS
- PROCESSED PRODUCTS * FERMENTED PRODUCTS
  - CASSAREEP
    * CONDIMENTS
    * MEAT PRESERVATION
  - CASSAVA BEER
    * BEVERAGES
    * FERMENTED PRODUCTS
  - CASSAVA FLOUR
    * AGBELI KAKLO
    * CHICKWANGUE
    * FLOURS (see below)
    * FOOD PRODUCTS
    * MYSORE FLOUR (see below)

* FLOURS * GLUTEN
  - COMPOSITE FLOURS
    * BREADS
    * FISH MEAL
      * MEALS
    * MAIZE FLOUR

* MILLET FLOUR
* OILSEED FLOURS
* POTATO FLOUR
* SORGHUM FLOUR
* SOYBEAN FLOUR
* WHEAT FLOUR

- MYSORE FLOUR
  * GROUNDNUT FLOUR
  * CASSAVA FLOUR

- MAIZE FLOUR
  * COMPOSITE FLOURS
  * MAIZE

- MILLET FLOUR
  * COMPOSITE FLOURS
  * MILLETS

- OILSEED FLOURS
  * COMPOSITE FLOURS

  - COTTONSEED FLOUR
    * COTTON

  - GROUNDNUT FLOUR
    * GROUNDNUT
    * MYSORE FLOUR

- POTATO FLOUR
  * COMPOSITE FLOURS
  * POTATOES

- SORGHUM FLOUR
  * COMPOSITE FLOURS
  * SORGHUMS

- SOYBEAN FLOUR
  * COMPOSITE FLOURS

- WHEAT FLOUR
  * COMPOSITE FLOURS

- CASSAVA BREAD
  * BREADS

  - CASAVE

- CASSAVA CHEESE
  * PROTEINS

- CASSAVA MILK

- TAPIOCA MACARONI
  * PASTA

- CASSAVA MEAL
  * FEEDS AND FEEDING
  * GARI

  - CASSAVA PASTES

- ATIEKE
- BAMI
- CHICKWANGUE — * CASSAVA FLOUR
- DUMBOI
- FOOFOO
- LANDANG

- CASSAVA STARCH — * FOOD PRODUCTS; * INDUSTRIAL STARCHES; * MODIFIED STARCHES
  - TAPIOCAS
    - TAPIOCA FLAKES
    - TAPIOCA GRISTS
    - TAPIOCA PEARLS
    - TAPIOCA SEEDS
- DRIED TUBERS — * CASSAVA TUBERS (VEGETABLE); * FEEDS AND FEEDING
  - BROKEN ROOTS — * PELLETS
  - CASSAVA CHIPS — * PELLETS
  - GAPLEK
    - GAPLEK MEAL — * FEED CONSTITUENTS
- PULP — * PULPING

USES — * CASSAVA PRODUCTS; * PACKAGING; * DISTRIBUTION; * WASTE UTILIZATION

- FEEDS AND FEEDING (use category J)

- FERMENTED PRODUCTS
  * BREADS
  * CASSAVA BEER
  * FERMENTATION
  * FOOD PRODUCTS
  * GARI
  * PROCESSED PRODUCTS
  - ALCOHOL
    - ETHANOL
  - YEAST PRODUCTION
    * PROTEINS
- FOOD PRODUCTS
  * CASSAVA FLOUR
  * CASSAVA STARCH
  * DEXTROSE
  * FERMENTED PRODUCTS
  * FILLERS
    * PHARMACEUTICALS
  * HUMAN NUTRITION
  * PARTICLE SIZE
    * INDUSTRIAL STARCHES
  * SUPPLEMENTS
    * FEED CONSTITUENTS
    * NUTRITIVE VALUE
  - BAKERY PRODUCTS
    - BREADS
      * BREAD IMPROVERS (see below)
      * CASSAVA BREAD
      * COMPOSITE FLOURS
      * BREAD IMPROVERS
        - CALCIUM STEARYL LACTYLATE
        - SODIUM STEARYL LACTYLATE
    - KAKAYAKE
    - BISCUITS
  - BEVERAGES
    * CASSAVA BEER
    * FERMENTATION
  - CARAMEL

- CONFECTIONERIES
- COOKED STARCHES
- FOOD BINDERS
- FOOD STABILIZERS
- FOOD THICKENERS
- GARI
  * CASSAVA MEAL
  * FERMENTED PRODUCTS
  - KPOKPO GARI
- FRUIT PRESERVES
- MSG
- PROTEIN ENRICHMENT
  * PROTEINS

- INDUSTRIAL STARCHES
  * CASSAVA STARCH
  * INDUSTRIALIZATION
  * PARTICLE SIZE
- ADHESIVES
  * DEXTRINS
  * DEXTROSE
  * GELATINIZATION
  - LIQUID ADHESIVES
  - ROLL-DRIED ADHESIVES
- DRILLING MUDS
- GLUCOSE INDUSTRY
- PAPER INDUSTRY
- TEXTILES

- PHARMACEUTICALS
  * DEXTROSE
  * FILLERS
  * THERAPEUTANTS

- PRESERVATIVES

- MEAT PRESERVATION — * CASSAREEP
- THERAPEUTANTS — * PHARMACEUTICALS

WASTE UTILIZATION
* FEEDS AND FEEDING
* INDUSTRIALIZATION
* WASTES

- PARTICLE BOARD

J CASSAVA IN RELATION TO ANIMAL FEEDING

DOMESTIC ANIMALS — * FEEDS AND FEEDING

- CATTLE
  - BEEF CATTLE
  - CALVES
  - DAIRY CATTLE — * MILK
- GOATS
- POULTRY — * EGGS
  - CHICKS
- SHEEP
  - LAMBS
- SWINE
  - PIGLETS

FEEDS AND FEEDING
* ANIMAL NUTRITION
* CASSAVA MEAL
* DOMESTIC ANIMALS
* DRIED TUBERS
* SUPPLEMENTS
* WASTE UTILIZATION

- CASSAVA LEAVES (VEGETABLE)
  * LEAVES
- CASSAVA TUBERS (VEGETABLE)
  * DRIED TUBERS
- FATTENING
- FEED CONSTITUENTS
  * BRANS
  * CAKES
  * CASSAVA FLOUR
  * CASSAVA MEAL
  * CONCENTRATES
  * DRIED TUBERS
  * GAPLEK MEAL
  * MEALS
  * MINERALS
  * SUPPLEMENTS
  - ALFALFA
  - BLOOD MEAL
    * MEALS
  - BONE MEAL
    * MEALS
  - BREWERS GRAINS
  - CACAO POD MEAL
    * MEALS
  - COTTONSEED CAKE
    * CAKES
    * COTTON
  - COTTONSEED MEAL
    * COTTON
    * MEALS
  - COWPEA MEAL
    * MEALS
  - GROUND RICE
    * RICE
  - GROUNDNUT CAKE
    * CAKES
    * GROUNDNUT
  - GUINEA CORN
    * SORGHUMS
  - MAIZE MEAL
    * MAIZE
    * MEALS
  - MEAT MEAL
    * MEALS

- MILK * DAIRY CATTLE
- MOLASSES
- OATS
- PALM-KERNEL MEAL * MEALS
- RICE BRAN * BRANS
  * RICE
- WHEAT BRAN * BRANS
- WHEAT MEAL * MEALS

- FEED MIXTURES
- FINISHING
- FORAGE
- PELLETS * CASSAVA CHIPS
  * BROKEN ROOTS
- PROTEIN ENRICHMENT * PROTEINS
- SILAGE

K CASSAVA IN RELATION TO ANIMAL AND HUMAN NUTRITION

ANIMAL PHYSIOLOGY
* ANIMAL NUTRITION
* TOXICOLOGY

ANIMAL NUTRITION
* ANIMAL HEALTH
* ANIMAL PHYSIOLOGY
* BIOCHEMISTRY
* COOKING
* FEEDS AND FEEDING

- DIETS * DIETARY VALUE (see below)
- NUTRIENT LOSS * NUTRITIVE VALUE
  * PROCESSING

- NUTRITIVE VALUE
  * DIETARY VALUE
  * NUTRIENT LOSS
  * SUPPLEMENTS

HUMAN PHYSIOLOGY
  * HUMAN NUTRITION
  * TOXICOLOGY

HUMAN NUTRITION
  * BIOCHEMISTRY
  * COOKING
  * FOOD PRODUCTS
  * HUMAN PHYSIOLOGY

- DIETS
  * DIETARY VALUE (see below)

* DIETARY VALUE
  * NUTRITIVE VALUE

  - DIGESTIBILITY
  - FOOD ENERGY
  - PALATABILITY
    * ORGANOLEPTIC EXAMINATION

- MALNUTRITION
  * HUMAN HEALTH
    * DEFICIENCY DISEASES
    * TOXICOLOGY

* DEFICIENCY DISEASES
  * ANIMAL HEALTH
  * CLINICAL MANIFESTATION
  * DEFICIENCIES (see below)
  * HUMAN HEALTH
  * IODINE

* DEFICIENCIES
  * DEFICIENCY DISEASES

  - MINERAL DEFICIENCIES
    * CHLOROSIS
    * MINERALS
  - PROTEIN DEFICIENCIES
  - VITAMIN DEFICIENCIES

- HUNGER OEDEMA
  * ANAEMIA
  * CELLULAR HYDRAEMIA

* ENDOCRINE DISORDERS
* HEPATIC DISORDERS
* HYPOALBUMINAEMIA

- KWASHIORKOR

- NUTRIENT LOSS
  * NUTRITIVE VALUE
  * PROCESSING

- NUTRITIVE VALUE
  * DIETARY VALUE
  * NUTRIENT LOSS
  * SUPPLEMENTS

L CASSAVA TOXICITY

TOXICITY
* ANTIDOTES
* BIOCHEMISTRY
* DETOXIFICATION
* HCN CONTENT
* TOXICOLOGY (see below)

* TOXICOLOGY
  * ANIMAL HEALTH
  * ANIMAL PHYSIOLOGY
  * HUMAN HEALTH
  * HUMAN PHYSIOLOGY

- CLINICAL MANIFESTATIONS * DEFICIENCY DISEASES

- ATAXIC NEUROPATHY

- CRETINISM

- ENDEMIC GOITRE

- TOXIC OEDEMA

- HCN ABSORPTION
  * ABSORPTION
  * HCN (see below)

* HCN
  * CYANIDES
    * THIOCYANATES
      * IODINE
  * CYANOGENIC GLYCOSIDES
  * DETOXIFICATION
  * HCN CONTENT

CYANOGENIC GLYCOSIDES
* CYANOGENESIS
  * CYANOGEN
* GLUCOSE
* HCN

- AMYDGALIN

- LINAMARIN
* ALANINE
* LIMA BEANS
* LINAMARASE
* RHODANESE

- LOTAUSTRALIN
* VALINE

DETOXIFICATION
* HCN
* HYDROLYSIS
  * ENZYMES (see below)
* TOXICITY

* ENZYMES

- LINAMARASE
* LINAMARIN

- RHODANESE
* LINAMARIN

- DETOXIFICATION PROCESSES
* BOILING
* DRYING
* FERMENTATION
* PEELING
* PULPING
* RASPING
* STEEPING
* WASHING

M ECONOMICS, DEVELOPMENT AND RESEARCH

DEVELOPMENT
* DEVELOPMENT COSTS
* DEVELOPMENTAL RESEARCH

- CASSAVA PROGRAMS

- INDUSTRIALIZATION
* INDUSTRIAL MACHINERY
  * PROCESSING

* INDUSTRIAL STARCHES
* MECHANIZATION (see below)
* WASTE UTILIZATION
* WATER REQUIREMENTS (PROCESSING)

* MECHANIZATION
  * CULTIVATION
  * PROCESSING
  * AGRICULTURAL EQUIPMENT

- FACTORIES
  * DISTRIBUTION
  * PRODUCTION
    * ECONOMICS
    * FORESTRY
    * MARKETING

- POWER SOURCES

- INDUSTRIAL MACHINERY
  * PROCESSING

- SMALL-SCALE EQUIPMENT
  * SMALL-SCALE PROCESSING

ECONOMICS
* CULTIVATION SYSTEMS
* MARKETING
* PRODUCTION (see above)
* SOCIO-ECONOMIC ASPECTS
  * MARKETING

- CONSUMPTION

- COSTS
  * LABOUR

  - DEVELOPMENT COSTS
    * DEVELOPMENT

- INCOME

- LABOUR
  * COSTS

- PRICES
  * CASSAVA PRODUCTS

  - PRICE MAINTENANCE

MARKETING
* DISTRIBUTION (see below)
* ECONOMICS

* PRODUCTION (see above)
* SOCIO-ECONOMIC ASPECTS

* DISTRIBUTION
* FACTORIES
* PACKAGING
* STORAGE
* DETERIORATION

- TRADE

- LEGAL ASPECTS
* PROCESSING
* CASSAVA PRODUCTS

PRODUCTIVITY
* WASTES (see below)

* WASTES
* STEMS
* WASTE UTILIZATION

- ENERGY PRODUCTIVITY

- STARCH PRODUCTIVITY

- TUBER PRODUCTIVITY

RESEARCH
* EXPERIMENT DESIGN

- DEVELOPMENTAL RESEARCH
* DEVELOPMENT

- FIELD EXPERIMENTS

- LABORATORY EXPERIMENTS
* LABORATORY ANIMALS

- GROWTH-CHAMBER EXPERIMENTS

- CULTURE MEDIA

- ISOLATION
* DISEASES AND PATHOGENS

- TRACERS

SECTION 2

COMPLETE ALPHABETICAL LISTING

Abscission
USE DEFOLIATION

ABSORPTION L
RT HCN ABSORPTION

ACARICIDES C
UF MITICIDES
BT MITE CONTROL

Acarids
USE INJURIOUS MITES

Acarology
USE ENTOMOLOGY

Acidity
USE pH

ADAPTATION E
RT CULTIVARS

ADHESIVES I
UF GLUES
GUMS
BT INDUSTRIAL STARCHES
NT LIQUID ADHESIVES
ROLL-DRIED ADHESIVES
RT DEXTRINS
GELATINIZATION

AEROBACTER CLOACAE D
BT INDUSTRIAL MICROBIOLOGY

AFLATOXINS C
RT MOULDS

African Cassava Mosaic Virus
USE CASSAVA AFRICAN MOSAIC VIRUS

AGBELI KAKLO I
RT CASSAVA FLOUR

Age
USE TIMING

AGRICULTURAL EQUIPMENT B
RT MECHANIZATION
CULTIVATION

Ahipa
USE PACHYRHIZUS

Ahipi
USE MANIHOT ESCULENTA

ALANINE H
BT AMINO ACIDS
RT LINAMARIN

ALCOHOL I
BT FERMENTED PRODUCTS
NT ETHANOL

Alcohol (ethyl)
USE ETHANOL

ALEYRODIDAE C
UF WHITEFLIES
BT INJURIOUS INSECTS
VECTORS
NT BEMISIA

ALFALFA J
UF LUCERNE
BT FEED CONSTITUENTS

Alkalinity
USE pH

ALOCASIA A
SN Use only for comparative data
BT STARCH CROPS

ALTERNARIA C
BT MYCOSES

Alum
USE ALUMINIUM SULPHATE

ALUMINIUM H
BT MINERALS

ALUMINIUM SULPHATE D
UF ALUM
RT SILTING AGENTS

AMINO ACIDS H
SN Include modified amino acids and closely related compounds
BT PROTEIN CONTENT
NT ALANINE
ARGININE
CYSTEINE
CYSTINE
GLYCINE
HISTIDINE
LYSINE
METHIONINE
ORNITHINE
THREONINE
TRYPTOPHANE
TYROSINE
VALINE
RT S

AMMONIUM SULPHATE B
UF SULPHATE OF AMMONIA
BT FERTILIZERS
RT N
S

AMORPHOPHALLUS A
SN Use only for comparative data
BT STARCH CROPS

Ampas
USE WASTES

AMYGDALIN L
SN Use only for HCN decomposition
BT CYANOGENIC GLYCOSIDES

ANAEMIA K
SN Use only in relation to cassava and malnutrition

UF ANAEMIA
RT HUNGER OEDEMA

ANALYSIS (CHEMICAL) H
UF CHEMICAL ANALYSIS
CHROMATOGRAPHY
COLORIMETRY
RT COMPOSITION

Analysis (soil)
USE SOIL ANALYSIS

Analysis (statistical)
USE STATISTICAL ANALYSIS

ANASTREPHA PICKELI C
BT INJURIOUS INSECTS

Anatomy (plant)
USE PLANT ANATOMY

Anemia
USE ANAEMIA

Aneurin
USE THIAMIN

Animal foodstuffs
USE FEEDS AND FEEDING

ANIMAL HEALTH K
(BT HEALTH)
ANIMAL NUTRITION
RT DEFICIENCY DISEASES
TOXICOLOGY

ANIMAL NUTRITION K
UF NUTRITION (ANIMAL)
NT DIETS
NUTRIENT LOSS
NUTRITIVE VALUE
ANIMAL HEALTH
RT ANIMAL PHYSIOLOGY
BIOCHEMISTRY
COOKING
FEEDS AND FEEDING

ANIMAL PHYSIOLOGY K
SN Restrict to application in relation to cassava, e.g. nutrition and toxicology
BT PHYSIOLOGY
RT ANIMAL NUTRITION
TOXICOLOGY

Animals (domestic)
USE DOMESTIC ANIMALS

ANTHERS F
BT STAMENS
NT POLLEN

ANTIBODIES C
RT TOXICITY

ANTIDOTES L
RT TOXICITY

ANTISERA C
BT VIRUS INHIBITION
RT ANTIBODIES

AONIDOMYTILUS ALBUS C
UF CASSAVA SCALE
BT INJURIOUS INSECTS

APICAL MERISTEMS F
UF MERISTEMS (APICAL)
BT PLANT TISSUES
RT TISSUE CULTURE

Aracacha
USE ARRACACIA

ARGININE H
BT AMINO ACIDS

Arracacha
SN Ignore if not applicable to Arracacia; several unrelated crops occur under this name
USE ARRACACIA

ARRACACIA A
SN Use only for comparative data
UF ARACACHA

ARRACACHA
ARROWROOT
BT STARCH CROPS
NT ARRACACIA XANTHORHIZA

ARRACACIA XANTHORHIZA A
UF ARRACHA
BT ARRACACIA

Arracha
USE ARRACACIA XANTHORHIZA

Arrowroot
SN Arrowroot is used for a multitude of crops. Ignore if not applicable to Arracacia.
USE ARRACACIA

Artificial illumination
USE ILLUMINATION

Artocarpus communis
USE BREADFRUIT

ASCORBIC ACID H
UF VITAMIN C
BT VITAMIN CONTENT

ASH CONTENT H
BT COMPOSITION

ASPERGILLUS C
BT MYCOSES
RT MOULDS

Assimilation (plant)
USE PLANT ASSIMILATION

ATAXIC NEUROPATHY
SN Restrict to tropical (nutritional) ataxic neuropathy with cassava involvement
UF NEUROPATHY (TROPICAL ATAXIC)
BT CLINICAL MANIFESTATIONS

ATIEKE I
BT CASSAVA PASTES

Bacillus manihotis
USE XANTHOMONAS MANIHOTIS

BACKCROSSING E
BT PLANT BREEDING
RT CROSSBREEDING

Bacteria (beneficial)
USE INDUSTRIAL MICROBIOLOGY

Bacteria transmission
USE DISEASE TRANSMISSION

Bacterial diseases
USE BACTERIOSES

BACTERIOSES C
SN Includes pathogens. Restrict NTs to important diseases or pathogens and include others under this descriptor.
UF BACTERIAL DISEASES
DISEASES (BACTERIAL)
BT DISEASES AND PATHOGENS
NT CASSAVA BACTERIAL BLIGHT
ERWINIA CASSAVAE
PSEUDOMONAS
XANTHOMONAS MANIHOTIS
RT DISEASE TRANSMISSION

Bacterium cassavae
USE ERWINIA CASSAVAE

BAKERY PRODUCTS I
BT FOOD PRODUCTS
NT BREADS
KAKAYAKE
BISCUITS

BAMI I
BT CASSAVA PASTES

BANANA-PLANTAINS A
SN Use only for comparative data. Avoid false analogy with Plantago Plantains.
UF COOKING-BANANAS
PLANTAINS

BT STARCH CROPS
RT MUSA

BANANAS A
SN Use only for comparative data
BT STARCH CROPS
RT MUSA

BEANS A
SN Use only for comparative data
BT STARCH CROPS
RT PHASEOLUS VULGARIS

Beans (Lima)
USE LIMA BEANS

BEEF CATTLE J
BT CATTLE

Beer (cassava)
USE CASSAVA BEER

BEMISIA C
BT ALEYRODIDAE

BEVERAGES I
UF DRINKS
BT FOOD PRODUCTS
RT CASSAVA BEER
FERMENTATION

Binders (food)
USE FOOD BINDERS

BIOCHEMISTRY D
RT ANIMAL NUTRITION
COMPOSITION
FERMENTATION
HUMAN NUTRITION
PHYSIOLOGY
TOXICOLOGY

BIOLOGICAL CONTROL C
UF CONTROL (BIOLOGICAL)
NT INSECT AGENTS
RT DISEASE CONTROL
INSECT CONTROL
MITE CONTROL

BISCUITS I
BT BAKERY PRODUCTS

BITTER CASSAVA A
BT CASSAVA
RT HCN CONTENT

Blends
USE FEED MIXTURES

BLOOD MEAL J
BT FEED CONSTITUENTS
RT MEALS

Board
USE PARTICLE BOARD

BOILING D
BT PROCESSING
RT DETOXIFICATION PROCESSES

Bolting
SN As a processing term
USE SCREENING

BONE MEAL J
BT FEED CONSTITUENTS
RT MEALS

BORON H
BT MINERALS

Botanical keys
USE IDENTIFICATION

BRANCHING G
BT DEVELOPMENTAL STAGES
RT STEMS

BRANS J
RT FEED CONSTITUENTS
RICE BRAN
WHEAT BRAN

Brazilian manihot
USE CASSAVA

Bread (cassava)
USE CASSAVA BREAD

BREAD IMPROVERS I
NT CALCIUM STEARYL LACTYLATE
SODIUM STEARYL LACTYLATE
RT BREADS

BREADFRUIT A
SN Use only for comparative data
UF ARTOCARPUS COMMUNIS
BT STARCH CROPS

BREADS I
UF DOUGHS
BT BAKERY PRODUCTS
RT BREAD IMPROVERS
CASSAVA BREAD
COMPOSITE FLOURS
FERMENTED PRODUCTS

Breeding (plant)
USE PLANT BREEDING

BREWERS GRAINS J
BT FEED CONSTITUENTS

British gums
USE DEXTRINS

BROKEN ROOTS I
BT DRIED TUBERS
RT PELLETS

Brown streak disease
USE CASSAVA BROWN STREAK VIRUS

Ca H
UF CALCIUM
BT MINERALS
RT CALCIUM SUPERPHOSPHATE

CACAO POD MEAL J
BT FEED CONSTITUENTS
RT MEALS

CAKES J
SN For animal feeds, not bakery products
RT COTTONSEED CAKE
FEED CONSTITUENTS
GROUNDNUT CAKE

Calcium
USE Ca

CALCIUM CHLORIDE D
UF CHLORIDE OF LIME
RT SILTING AGENTS

CALCIUM STEARYL LACTYLATE I
BT BREAD IMPROVERS

CALCIUM SUPERPHOSPHATE B
UF SUPERPHOSPHATE OF LIME
BT FERTILIZERS
RT Ca
P

Calf
USE CALVES

Calories
USE FOOD ENERGY

Calorific value
USE FOOD ENERGY

CALVES J
UF CALF
BT CATTLE

Candies
USE CONFECTIONERIES

Canned fruits
USE FRUIT PRESERVES

CANOPY F
BT FOLIAGE
RT TRANSPIRATION

CARAMEL I
BT FOOD PRODUCTS

CARBOHYDRATE CONTENT H
BT COMPOSITION
NT STARCH CONTENT
SUGAR CONTENT

CARBON DIOXIDE (No category letter)
UF CO_2

CARPELS F
BT FLOWERS
RT FRUITS

Carpolonchaea chalybea
USE LONCHAEA CHALYBEA

CASAVE I
UF CAZABE
BT CASSAVA BREAD

Casleep
USE CASSAREEP

Cassada
USE CASSAVA

CASSAREEP I
UF CASLEEP
CASSARIPO
MANIPUERA
TUCUPAY
BT PROCESSED PRODUCTS
RT CONDIMENTS
MEAT PRESERVATION

Cassaripo
USE CASSAREEP

CASSAVA A
UF BRAZILIAN MANIHOT
CASSADA
KASPE
MANDIOCA
MANIHOT (BRAZILIAN)
MANIOC
MANIOCA
TAPIOCA-PLANT

UBI KETELLA
YUCA
BT STARCH CROPS
NT BITTER CASSAVA
SWEET CASSAVA
RT CASSAVA PRODUCTS
MANIHOT ESCULENTA

CASSAVA AFRICAN MOSAIC VIRUS C
UF AFRICAN CASSAVA MOSAIC VIRUS
BT VIROSES
RT MOSAIC DISEASES

CASSAVA BACTERIAL BLIGHT C
BT BACTERIOSES
RT XANTHOMONAS

CASSAVA BEER I
UF BEER (CASSAVA)
BT PROCESSED PRODUCTS
RT BEVERAGES
FERMENTED PRODUCTS

CASSAVA BREAD I
UF BREAD (CASSAVA)
COUAC
BT CASSAVA FLOUR
NT CASAVE
RT BREADS

CASSAVA BROWN STREAK VIRUS C
UF BROWN STREAK DISEASE
CASSAVA STEM LESION VIRUS
JATROPHAVIRUS FLAVESCENS
MANIHOT VIRUS 2
STEM LESION DISEASE
BT VIROSES

Cassava caterpillar
USE ERINNYIS ELLO

CASSAVA CHEESE I
UF CHEESE (CASSAVA)
VEGETABLE CHEESE
BT CASSAVA FLOUR
RT FERMENTATION
PROTEINS

CASSAVA CHIPS I
UF CHIPS
BT DRIED TUBERS
RT PELLETS

CASSAVA COMMON MOSAIC VIRUS C
UF CASSAVA WITCHES BROOM VIRUS
COMMON MOSAIC
SUPERBROTAMENTO
WITCHES BROOM
BT VIROSES
RT MOSAIC DISEASES

CASSAVA FLOUR I
UF FLOUR (CASSAVA)
BT PROCESSED PRODUCTS
NT CASSAVA BREAD
CASSAVA CHEESE
CASSAVA MILK
TAPIOCA MACARONI
RT AGBELI KAKLO
CHICKWANGUE
FLOURS
FOOD PRODUCTS
MYSORE FLOUR

Cassava hornworm
USE ERINNYIS ELLO

Cassava leaf crinkle
USE CASSAVA LEAF CURL

CASSAVA LEAF CURL C
UF CASSAVA LEAF CRINKLE
LEAF CURL
BT VIROSES
RT TOBACCO LEAF CURLS VIRUS

CASSAVA LEAF MEAL
SN For reference to fresh leaves prepared as a feed meal, use LEAVES and CASSAVA MEAL

CASSAVA LEAVES (VEGETABLE) I and J
SN Young leaves as a vegetable

BT FEEDS AND FEEDING
FRESH PRODUCTS
RT LEAVES

CASSAVA MEAL I
UF CASSAVA ROOT MEAL
FARINHA
MEAL (CASSAVA)
ROOT MEAL (CASSAVA)
BT PROCESSED PRODUCTS
NT CASSAVA PASTES
LANDANG
RT FEEDS AND FEEDING
GARI

CASSAVA MILK I
UF MILK (CASSAVA)
BT CASSAVA FLOUR

CASSAVA MOSAIC VIRUS C
UF CURLY-LEAF DISEASE
JATROPHAVIRUS MACULANS
MANIHOT VIRUS
MOSAIC DISEASE
OCHROSTICTA BEMISIAE
RUGA BEMISIAE
BT VIROSES
RT MOSAIC DISEASES

CASSAVA PASTES I
UF PASTES (CASSAVA)
BT CASSAVA MEAL
NT ATIEKE
BAMI
CHICKWANGUE
DUMBOI
FOOFOO

Cassava pellets
USE PELLETS

CASSAVA PRODUCTS I
UF PRODUCTS (CASSAVA)
NT FRESH PRODUCTS
PROCESSED PRODUCTS
RT CASSAVA

LEGAL ASPECTS
PRICES
SMALL-SCALE PROCESSING
USES

CASSAVA PROGRAMS M
UF PROGRAMS (CASSAVA)
BT DEVELOPMENT

Cassava rice
USE LANDANG

Cassava root meal
USE CASSAVA MEAL

Cassava scale
USE AONIDOMYTILUS ALBUS

Cassava shoot-tip fly
USE LONCHAEA CHALYBEA

CASSAVA STARCH I
SN Care should be taken to ensure that starch is intended; confusion exists in the literature between starches and flours
UF TAPIOCA FLOUR
BT PROCESSED PRODUCTS
NT TAPIOCAS
RT FOOD PRODUCTS
INDUSTRIAL STARCHES
MODIFIED STARCHES

Cassava stem lesion virus
USE CASSAVA BROWN STREAK VIRUS

CASSAVA SUPERELONGATION C
UF SUPERELONGATION
BT MYCOSES
RT SPHACELOMA MANIHOTICOLA

CASSAVA TUBERS (VEGETABLE) I and J
BT FEEDS AND FEEDING
FRESH PRODUCTS
RT DRIED TUBERS
(TUBER VEGETABLES)

CASSAVA VEIN MOSAIC VIRUS C
UF VEIN MOSAIC DISEASE
BT VIROSES
RT MOSAIC DISEASES

Cassava witches broom virus
USE CASSAVA COMMON MOSAIC VIRUS

CATTLE J
BT *DOMESTIC ANIMALS*
NT BEEF CATTLE
CALVES
DAIRY CATTLE

Cazabe
USE CASAVE

CEARA RUBBER A
RT MANIHOT GLAZIOVII

Ceara rubber oil
USE MANIHOT OIL

Ceara rubber plant
USE MANIHOT GLAZIOVII

Cecidia
USE GALLS

CECIDOMYIIDAE C
UF GALL-MIDGES
BT INJURIOUS INSECTS
NT *EUDIPLOSIS BRASILIENSIS*
RT GALLS

CELLULAR HYDRAEMIA K
UF *HYDREMIA (CELLULAR)*
RT HUNGER OEDEMA

CENTRIFUGING D
BT PROCESSING
RT DRYING
SCREENING

CERCOSPORA CARIBAEA C
BT MYCOSES

Cercospora cassavae
USE CERCOSPORA HENNINGSII

Cercospora cearae
USE CERCOSPORA HENNINGSII

CERCOSPORA HENNINGSII C
UF CERCOSPORA CASSAVAE
CERCOSPORA CEARAE
CERCOSPORA MANIHOTICOLA
CERCOSPORA MANIHOTIS
CERCOSPORELLA PSEUDOIDIUM
HELMINTHOSPORIUM HISPANIOLAE
HELMINTHOSPORIUM MANIHOTIS
MYCOSPHAERELLA MANIHOTIS
SEPTOGLOEUM MANIHOTIS
BT MYCOSES

Cercospora manihoticola
USE CERCOSPORA HENNINGSII

Cercospora manihotis
USE CERCOSPORA HENNINGSII

Cercosporella pseudoidium
USE CERCOSPORA HENNINGSII

CERCOSPORA VISCOSAE C
BT MYCOSES

CEREALS A
SN Use only as rotational or inter crops with cassava or for comparative data
BT STARCH CROPS
NT MAIZE
MILLETS
RICE
SORGHUMS

Cheese (cassava)
USE CASSAVA CHEESE

Chemical analysis
USE ANALYSIS (CHEMICAL)

Chemical composition
USE COMPOSITION

Chemotaxonomy
USE TAXONOMY

CHICKS J
BT POULTRY

CHICKWANGUE I
UF KWANGA
BT CASSAVA PASTES
RT CASSAVA FLOUR

Chile saltpetre
USE SODIUM NITRATE

Chilean nitrate
USE SODIUM NITRATE

Chips
USE CASSAVA CHIPS

Chloride of lime
USE CALCIUM CHLORIDE

CHLORINE D
RT SILTING AGENTS

CHLOROSIS C
RT MINERAL DEFICIENCIES
VIROSES

Chromatography
USE ANALYSIS (CHEMICAL)

CHROMOSOMES E
RT CYTOGENETICS

Classification (plant)
USE TAXONOMY

CLIMATIC REQUIREMENTS B
BT CULTIVATION
NT LIGHT
TEMPERATURE
RT ECOLOGY
PHENOLOGY
RAINFALL DATA
WATER REQUIREMENTS (PLANT)

CLINICAL MANIFESTATIONS L
BT TOXICOLOGY
NT ATAXIC NEUROPATHY
CRETINISM
ENDEMIC GOITRE
TOXIC OEDEMA
RT DEFICIENCY DISEASES

CLONES B
RT CULTIVARS
PROPAGATION MATERIALS

CO_2
USE CARBON DIOXIDE

Coco
USE TARO

COCOYAMS A
UF MALANGA
RT XANTHOSOMA SAGITTIFOLIUM
YAMS

COELOSTERNUS GRANICOLLIS C
BT INJURIOUS INSECTS

COELOSTERNUS MANIHOTI C
BT INJURIOUS INSECTS

COELOSTERNUS NOTATICEPS C
BT INJURIOUS INSECTS

COELOSTERNUS RUGICOLLIS C
BT INJURIOUS INSECTS

COLCHICINE E
RT MUTATION

Colletotrichum gloeosporioides
USE GLOMERELLA CINGULATA

COLOCASIA A
BT STARCH CROPS
NT TARO

COLOCASIA ESCULENTA A
RT TARO

Colorimetry
USE ANALYSIS (CHEMICAL)

Commerce
USE TRADE

Common mosaic
USE CASSAVA COMMON MOSAIC VIRUS

COMPOSITE FLOURS I
UF FLOURS (MIXED)
NT MYSORE FLOUR
RT BREADS
FISH MEAL
MAIZE FLOUR
MILLET FLOUR
OILSEED FLOURS
POTATO FLOUR
SORGHUM FLOUR
SOYBEAN FLOUR
WHEAT FLOUR

COMPOSITION H
SN Chemical composition of tubers and cassava products
UF CHEMICAL COMPOSITION
NT ASH CONTENT
CARBOHYDRATE CONTENT
DRY MATTER
FAT CONTENT
FIBER CONTENT
HCN CONTENT
MINERAL CONTENT
OXALIC ACID
PROTEIN CONTENT
VITAMIN CONTENT
WATER CONTENT
RT ANALYSIS
BIOCHEMISTRY
NUTRITIVE VALUE
TUBERS

CONCENTRATES J
RT FEED CONSTITUENTS

CONDIMENTS I
RT CASSAREEP

CONFECTIONERIES I
UF CANDIES
SWEETS
SYRUPS
BT FOOD PRODUCTS

CONSUMPTION M
SN Use for actual and potential markets
UF DEMAND
MARKET
BT ECONOMICS

Control (biological)
USE BIOLOGICAL CONTROL

Control (insect)
USE INSECT CONTROL

Control (mite)
USE MITE CONTROL

COOKED STARCHES I
BT FOOD PRODUCTS

COOKING K
SN Effects of cooking on nutritive value, not utilization on recipes
UF CUISINE
RT ANIMAL NUTRITION
HUMAN NUTRITION

Cooking-bananas
USE BANANA-PLANTAINS

COPPER H
BT MINERALS

Corn
USE MAIZE

CORTEX F
UF PEEL
BT TUBERS

CORYNEBACTERIUM D
SN Use only for industrial applications
BT INDUSTRIAL MICROBIOLOGY

COSTS M
UF PRODUCTION COSTS
BT ECONOMICS
NT DEVELOPMENT COSTS
RT LABOUR

Cottage industries
USE SMALL-SCALE PROCESSING

COTTON B
SN Use only as a rotational crop with cassava
RT COTTONSEED CAKE
COTTONSEED FLOUR
COTTONSEED MEAL
ROTATIONAL CROPS

COTTONSEED CAKE J
BT FEED CONSTITUENTS
RT CAKES
COTTON

COTTONSEED FLOUR I
UF FLOUR (COTTONSEED)
BT OILSEED FLOURS
RT COTTON

COTTONSEED MEAL J
BT FEED CONSTITUENTS
RT COTTON
MEALS

Couac
USE CASSAVA BREAD

COWPEA MEAL J
BT FEED CONSTITUENTS
RT MEALS

Cows
USE DAIRY CATTLE

CRETINISM L
SN Restrict to cassava involvement in endemic congenital cretinism
BT CLINICAL MANIFESTATIONS

Cropping systems
USE CULTIVATION SYSTEMS

Crops (secondary)
USE SECONDARY CROPS

CROSSBREEDING E
RT BACKCROSSING
HYBRIDIZING

CROTALARIA B
BT GREEN MANURES

Cuadrado
USE MANIHOT CARTHAGENENSIS

Cuisine
USE COOKING

CULTIVARS E
UF CULTIVATED VARIETIES
VARIETIES
RT ADAPTATION
PLANT BREEDING
CLONES
HYBRIDS

Cultivated varieties
USE CULTIVARS

CULTIVATION B
UF CULTURAL PRACTICES
CULTURE
NT CLIMATIC REQUIREMENTS
NUTRITIONAL REQUIREMENTS
PLANTING
PLOUGHING
PROPAGATION
PRUNING
SOIL REQUIREMENTS
WATER REQUIREMENTS (PLANT)
WEEDING
RT AGRICULTURAL EQUIPMENT
CULTIVATION SYSTEMS
HARVESTING
LAND PREPARATION
MECHANIZATION

CULTIVATION SYSTEMS B
UF CROPPING SYSTEMS
NT FALLOWING
INTER-CROPPING
ROTATIONAL CROPS
SECONDARY CROPS
SHIFTING CULTIVATION
RT CULTIVATION
ECONOMICS

Cultural practices
USE CULTIVATION

Culture
USE CULTIVATION

CULTURE MEDIA M
BT LABORATORY EXPERIMENTS

CURCUMA A
SN Use only for comparative data
BT STARCH CROPS

Curly-leaf disease
USE CASSAVA MOSAIC VIRUS

Cush-cush
USE YAMS

CUTTINGS B
UF SETTS
STAKES
BT PROPAGATION MATERIALS
RT STEMS

CYANIDES L
RT HCN
THIOCYANATES

CYANOCOBALAMIN H
BT VITAMIN B12

CYANOGEN L
NT HCN
RT CYANOGENESIS

CYANOGENESIS L
RT CYANOGEN
CYANOGENIC GLYCOSIDES

Cyanogenetic glycosides
USE CYANOGENIC GLYCOSIDES

CYANOGENIC GLYCOSIDES L
SN Restrict to occurrence in cassava, except for information on decomposition or diminution
UF CYANOGENETIC GLYCOSIDES
GLUCOSIDES (CYANOGENIC)
GLYCOSIDES (CYANOGENIC)
NT AMYGDALIN
LINAMARIN
LOTAUSTRALIN
RT CYANOGENESIS
GLUCOSE
HCN

CYSTEINE H
BT AMINO ACIDS

CYSTINE H
BT AMINO ACIDS

CYTOGENETICS E
NT MICROSPOROGENESIS
POLYPLOIDY
RT CHROMOSOMES
CYTOLOGY
GENETICS
PLANT BREEDING

CYTOLOGY E
RT CYTOGENETICS

DAIRY CATTLE J
UF COWS
MILK COWS
BT DOMESTIC ANIMALS
RT MILK

Decortication
USE PEELING

DEFICIENCIES K
NT MINERAL DEFICIENCIES
PROTEIN DEFICIENCIES
VITAMIN DEFICIENCIES
RT DEFICIENCY DISEASES

DEFICIENCY DISEASES K
UF DISEASES (DEFICIENCY)
RT ANIMAL HEALTH
CLINICAL MANIFESTATIONS
DEFICIENCIES
HUMAN HEALTH
IODINE

DEFOLIATION C
UF ABSCISSION
BT PEST DAMAGE

DETERIORATION C
UF KEEPING QUALITIES
SPOLIAGE
RT MOULDS
PESTS
STORAGE

DETOXIFICATION L
NT DETOXIFICATION PROCESSES
RT HCN
HYDROLYSIS
TOXICITY

DETOXIFICATION PROCESSES L
BT DETOXIFICATION
RT BOILING
DRYING
FERMENTATION
PEELING
PULPING
RASPING
STEEPING
WASHING

DEVELOPMENT M
UF POLICIES
WORK PLANS
WORK PROGRAMS

NT CASSAVA PROGRAMS
INDUSTRIALIZATION
SMALL-SCALE EQUIPMENT
RT DEVELOPMENT COSTS
DEVELOPMENTAL RESEARCH

Development (plant)
USE PLANT DEVELOPMENT

DEVELOPMENT COSTS M
BT COSTS
RT DEVELOPMENT

DEVELOPMENTAL RESEARCH M
BT RESEARCH
RT DEVELOPMENT

DEVELOPMENTAL STAGES G
NT BRANCHING
FLOWERING
FRUITING
GERMINATION
ROOTING
TILLERING
TUBER DEVELOPMENT
RT PLANT DEVELOPMENT

DEXTRINS I
UF BRITISH GUMS
WHITE DEXTRINS
YELLOW DEXTRINS
RT ADHESIVES
DEXTROSE

DEXTROSE I
RT DEXTRINS
FOOD PRODUCTS
GLUCOSE
PHARMACEUTICALS

DIETARY VALUE K
NT DIGESTIBILITY
FOOD ENERGY
PALATABILITY
RT DIETS
NUTRITIVE VALUE

DIETS K
BT ANIMAL NUTRITION
HUMAN NUTRITION
RT DIETARY VALUE

DIGESTIBILITY K
BT DIETARY VALUE

Dilophonota ello
USE ERINNYIS ELLO

DIOSCOREA
(BT DIOSCOREACEAE)
RT YAMS

DIPLODIA C
BT MYCOSES

Disease carriers
USE VECTORS

DISEASE CONTROL C
BT PEST CONTROL
NT VIRUS INHIBITION
RT BIOLOGICAL CONTROL
DISEASES AND PATHOGENS

Disease organisms
USE DISEASE AND PATHOGENS

DISEASE TRANSMISSION C
UF BACTERIA TRANSMISSION
VIRUS TRANSMISSION
RT BACTERIOSES
GRAFTING
MYCOSES
VECTORS
VIROSES

Diseases (bacterial)
USE BACTERIOSES

Disease (fungal)
USE MYCOSES

Diseases (mycoplasmal)
USE MYCOPLASMOSES

Diseases (virus)
USE VIROSES

DISEASES AND PATHOGENS C
UF PATHOGENS
PATHOLOGY (PLANT)
PHYTOPATHOLOGY
PLANT PATHOLOGY
BT PESTS
NT BACTERIOSES
MYCOPLASMOSES
MYCOSES
PHYSIOLOGICAL DISORDERS (PLANT)
VIROSES
RT DISEASE CONTROL
EPIDEMIOLOGY
ETIOLOGY
ISOLATION

DISTRIBUTION M
UF TRANSPORTATION
RT FACTORIES
MARKETING
PACKAGING
STORAGE

Distribution (natural)
USE PLANT GEOGRAPHY

DOLICHOS A
SN Use only for comparative data
BT STARCH CROPS
RT DOLICHOS LABLAB

DOLICHOS LABLAB A
UF LABLAB
RT DOLICHOS

DOMESTIC ANIMALS J
UF ANIMALS (DOMESTIC)
FARM ANIMALS
LIVESTOCK
NT CATTLE
GOATS
POULTRY
SHEEP
SWINE
RT FEEDS AND FEEDING

Doughs
USE BREADS

DRAINAGE B
BT SOIL REQUIREMENTS

DRIED TUBERS I
UF KONKONTE
BT PROCESSED PRODUCTS
NT BROKEN ROOTS
CASSAVA CHIPS
GAPLEK
RT CASSAVA TUBERS (VEGETABLE)
FEEDS AND FEEDING

Driers
USE DRYING

DRILLING MUDS I
BT INDUSTRIAL STARCHES

DRY MATTER H
BT COMPOSITION

DRYING D
UF DRIERS
OVENS
BT PROCESSING
NT SOLAR DRYING
RT CENTRIFUGING
DETOXIFICATION PROCESSES

DUMBOI I
BT CASSAVA PASTES

DUNG B
UF FARMYARD MANURE
BT MANURES

ECOLOGY A
RT CLIMATIC REQUIREMENTS
PESTS
PHENOLOGY
PLANT GEOGRAPHY
RAINFALL DATA
SAVANNAS
SOIL REQUIREMENTS
WATER REQUIREMENTS (PLANT)

ECONOMICS M
NT CONSUMPTION
COSTS
INCOME
LABOUR
PRICES
RT CULTIVATION SYSTEMS
MARKETING
PRODUCTION
SOCIO-ECONOMIC ASPECTS

Edema (hunger)
USE HUNGER OEDEMA

Edema (toxic)
USE TOXIC OEDEMA

EGGS J
RT POULTRY

Embryology (plant)
USE MORPHOGENESIS

ENDEMIC GOITRE L
SN Restrict to cassava involvement
UF GOITER (ENDEMIC)
GOITRE (ENDEMIC)
BT CLINICAL MANIFESTATIONS

ENDOCRINE DISORDERS K
RT HUNGER OEDEMA

ENERGY PRODUCTIVITY M
BT PRODUCTIVITY

Ensilage
USE SILAGE

ENTOMOLOGY C
UF ACAROLOGY
RT INJURIOUS INSECTS
INJURIOUS MITES
INSECT CONTROL
MITE CONTROL

ENZYMES L
NT LINAMARASE

RHODANESE
RT HYDROLYSIS

EPIDEMIOLOGY C
RT DISEASES AND PATHOGENS

ERINNYIS ALOPE C
BT INJURIOUS INSECTS

ERINNYIS ELLO C
UF CASSAVA CATERPILLAR
CASSAVA HORNWORM
DILOPHONOTA ELLO
BT INJURIOUS INSECTS

ERWINIA CASSAVAE C
UF BACTERIUM CASSAVAE
BT BACTERIOSES

ETHANOL I
UF ALCOHOL (ETHYL)
ETHYL ALCOHOL
BT ALCOHOL

Ethyl alcohol
USE ETHANOL

ETIOLOGY C
RT DISEASES AND PATHOGENS

EUDIPLOSIS BRASILIENSIS C
UF JATROPHOBIA BRASILIENSIS
BT CECIDOMYIIDAE

EUTHRIPS MANIHOTI C
BT INJURIOUS INSECTS
VECTORS

EXPERIMENT DESIGN M
RT RESEARCH

Experimentation
USE RESEARCH

Exporting
USE TRADE

FACTORIES M
UF FLOUR MILLS
PELLETIZING PLANTS
STARCH FACTORIES
BT INDUSTRIALIZATION
NT POWER SOURCES
RT DISTRIBUTION
PRODUCTION

FALLOWING B
BT CULTIVATION SYSTEMS
RT SOIL FERTILITY

Farinha
USE CASSAVA MEAL

Farms animals
USE DOMESTIC ANIMALS

Farmyard manure
USE DUNG

FAT CONTENT H
UF FATTY ACIDS
LIPIDS
BT COMPOSITION

FATTENING J
BT FEEDS AND FEEDING

Fatty acids
USE FAT CONTENT

FEED CONSTITUENTS J
BT FEEDS AND FEEDING
NT ALFALFA
BLOOD MEAL
BONE MEAL
BREWERS GRAINS
CACAO POD MEAL
COTTONSEED CAKE
COTTONSEED MEAL
COWPEA MEAL
GROUND RICE
GROUNDNUT CAKE
GUINEA CORN
MAIZE MEAL

MEAT MEAL
MILK
MOLASSES
OATS
PALM-KERNEL MEAL
RICE BRAN
WHEAT BRAN
WHEAT MEAL
RT BRANS
CONCENTRATES
CAKES
CASSAVA FLOUR
CASSAVA MEAL
DRIED TUBERS
GAPLEK MEAL
MEALS
MINERALS
SUPPLEMENTS

FEED MIXTURES J
UF BLENDS
BT FEEDS AND FEEDING

FEEDS AND FEEDING J
UF ANIMAL FOODSTUFFS
FOODSTUFFS (ANIMAL)
BT USES
NT CASSAVA LEAVES (VEGETABLE)
CASSAVA TUBERS (VEGETABLE)
FATTENING
FEED CONSTITUENTS
FEED MIXTURES
FINISHING
FORAGE
PELLETS
PROTEIN ENRICHMENT
SILAGE
RT ANIMAL NUTRITION
CASSAVA MEAL
DOMESTIC ANIMALS
DRIED TUBERS
SUPPLEMENTS
WASTE UTILIZATION

FERMENTATION D
BT PROCESSING

NT FORMIC ACID
LACTIC ACID
RT BEVERAGES
BIOCHEMISTRY
DETOXIFICATION PROCESSES
FERMENTED PRODUCTS
INDUSTRIAL MICROBIOLOGY

FERMENTED PRODUCTS I
BT USES
NT ALCOHOL
YEAST PRODUCTION
RT BREADS
CASSAVA BEER
FERMENTATION
FOOD PRODUCTS
GARI
PROCESSED PRODUCTS

Fertility (plant)
USE PLANT FERTILITY

Fertility (soil)
USE SOIL FERTILITY

FERTILIZERS B
BT NUTRITIONAL REQUIREMENTS
SOIL AMENDMENTS
NT AMMONIUM SULPHATE
CALCIUM SUPERPHOSPHATE
POTASH
POTASSIUM CHLORIDE
SODIUM NITRATE
UREA
RT K
N
P

FIBRE CONTENT H
BT COMPOSITION

FIELD EXPERIMENTS M
UF FIELD RESEARCH METHODS
FIELD TRIALS
PLOT TESTS
BT RESEARCH

Field research methods
USE FIELD EXPERIMENTS

Field trials
USE FIELD EXPERIMENTS

FILLERS I
RT FOOD PRODUCTS
PHARMACEUTICALS

FINISHING J
BT FEEDS AND FEEDING

FISH MEAL I
RT COMPOSITE FLOURS
MEALS

Flakes (tapioca)
USE TAPIOCA FLAKES

Flavour
USE PALATABILITY

Floral biology
USE FLOWERING

Flour (cassava)
USE CASSAVA FLOUR

Flour (cottonseed)
USE COTTONSEED FLOUR

Flour (groundnut)
USE GROUNDNUT FLOUR

Flour (maize)
USE MAIZE FLOUR

Flour (millet)
USE MILLET FLOUR

Flour (Mysore)
USE MYSORE FLOUR

Flour (oilseed)
USE OILSEED FLOURS

Flour (potato)
USE POTATO FLOUR

Flour (sorghum)
USE SORGHUM FLOUR

Flour (soybean)
USE SOYBEAN FLOUR

Flour (wheat)
USE WHEAT FLOUR

Flour mills
USE FACTORIES

FLOURS I
NT COMPOSITE FLOURS
MAIZE FLOUR
MILLET FLOUR
OILSEED FLOURS
POTATO FLOUR
SORGHUM FLOUR
SOYBEAN FLOUR
WHEAT FLOUR
RT GLUTEN
CASSAVA FLOUR

Flours (mixed)
USE COMPOSITE FLOURS

FLOWERING G
UF DEVELOPMENTAL STAGES
FLORAL BIOLOGY
RT FLOWERS
MATURATION

FLOWERS F
BT INFLORESCENCES
NT CARPELS
OVARIES
PEDICELS
SEPALS
STAMENS
RT FLOWERING

FOLIAGE F
NT CANOPY
RT LEAVES

FOMES LIGNOSUS C
UF UNGULINA LIGNOSA
WHITE THREAD DISEASE
BT MYCOSES

FOOD BINDERS I
UF BINDERS (FOOD)
BT FOOD PRODUCTS

FOOD ENERGY K
UF CALORIES
CALORIFIC VALUE
BT DIETARY VALUE

Food enrichment
USE PROTEIN ENRICHMENT

FOOD PRODUCTS I
SN Restrict to uses of cassava, cassava starch, or chemicals known to be derived from cassava
UF FOODS
STARCH (FOOD INDUSTRIES)
BT USES
NT BAKERY PRODUCTS
BEVERAGES
CARAMEL
CONFECTIONERIES
COOKED STARCHES
FOOD BINDERS
FOOD STABILIZERS
FOOD THICKENERS
GARI
FRUIT PRESERVES
MSG
PROTEIN ENRICHMENT
RT CASSAVA FLOUR
CASSAVA STARCH
DEXTROSE
FERMENTED PRODUCTS
FILLERS
HUMAN NUTRITION
PARTICLE SIZE
SUPPLEMENTS

FOOD STABILIZERS I
UF STABILIZERS (FOOD)
BT FOOD PRODUCTS

FOOD THICKENERS I
UF THICKENERS (FOOD)
BT FOOD PRODUCTS

Food value
USE NUTRITIVE VALUE

Foods
USE FOOD PRODUCTS

Foodstuffs (animal)
USE FEEDS AND FEEDING

FOOFOO I
UF FOUFOU
FUFU
BT CASSAVA PASTES

FORAGE J
BT FEEDS AND FEEDING

FORESTRY M
SN Restrict to forest activities in relation to cassava
RT PRODUCTION

FORMIC ACID D
BT FERMENTATION

Foufou
USE FOOFOO

Fowls
USE POULTRY

FRESH PRODUCTS I
UF UNPROCESSED PRODUCTS
BT CASSAVA PRODUCTS
NT CASSAVA LEAVES (VEGETABLE)
CASSAVA TUBERS (VEGETABLE)

Fructification
USE FRUITING

FRUCTOSE H
BT SUGAR CONTENT

FRUIT PRESERVES I
UF CANNED FRUITS
JAMS
PRESERVES
BT FOOD PRODUCTS

FRUITING G
UF FRUCTIFICATION
BT DEVELOPMENTAL STAGES
RT FRUITS

FRUITS F
BT PLANT ANATOMY
RT CARPELS
FRUITING
SEED

Fufu
USE FOOFOO

Fungal diseases
USE MYCOSES

Fungi (beneficial)
USE INDUSTRIAL MICROBIOLOGY

FUSARIUM C
BT MYCOSES

Gall-midges
USE CECIDOMYIIDAE

GALLS C
UF CECIDIA
RT CECIDOMYIIDAE
LONCHAEA CHALYBEA

GAPLEK I
BT DRIED TUBERS
NT GAPLEK MEAL

GAPLEK MEAL I
BT GAPLEK
RT FEED CONSTITUENTS

GARI I
BT FOOD PRODUCTS

NT KPOKPO GARI
RT CASSAVA MEAL
FERMENTED PRODUCTS

GELATINIZATION D
BT PROCESSING
RT ADHESIVES

Genetic improvement
USE PLANT BREEDING

GENETICS E
NT HETEROZYGOSIS
RT PLANT BREEDING
CYTOGENETICS
GERMPLASM

Geography (plant)
USE PLANT GEOGRAPHY

GEOTRICHUM CANDIDUM D
UF GEOTRICIUM CANDIDE
BT INDUSTRIAL MICROBIOLOGY

Geotricium candide
USE GEOTRICHUM CANDIDUM

GERMINATION G
BT DEVELOPMENTAL STAGES
RT PLANT FERTILITY
SEED

GERMPLASM E
RT GENETICS

GLOEOSPORIUM MANIHOTIS C
BT MYCOSES

GLOMERELLA CINGULATA C
UF COLLETOTRICHUM GLOEOSPORIOIDES
BT MYCOSES

GLUCOSE H
BT SUGAR CONTENT
RT CYANOGENIC GLYCOSIDES
DEXTROSE
GLUCOSE INDUSTRY

GLUCOSE INDUSTRY I
BT INDUSTRIAL STARCHES
RT GLUCOSE

Glucosides (cyanogenic)
USE CYANOGENIC GLYCOSIDES

Glues
USE ADHESIVES

GLUTEN I
RT FLOURS

GLYCINE H
BT AMINO ACIDS

Glycosides (cyanogenic)
USE CYANOGENIC GLYCOSIDES

GOATS J
BT DOMESTIC ANIMALS

Goiter (endemic)
USE ENDEMIC GOITRE

Goitre (endemic)
USE ENDEMIC GOITRE

GRAFTING B
BT PROPAGATION
RT DISEASE TRANSMISSION

Graters
USE RASPING

GREEN MANURES B
BT MANURES
NT CROTOLARIA

GRINDING D
UF MILLING
BT PROCESSING

Grists (tapioca)
USE TAPIOCA GRISTS

GROUND RICE J
BT FEED CONSTITUENTS
RT RICE

GROUNDNUT B
SN Use only as rotational crop with cassava
UF PEANUT
RT GROUNDNUT CAKE
GROUNDNUT FLOUR
ROTATIONAL CROPS

GROUNDNUT CAKE J
BT FEED CONSTITUENTS
RT CAKES
GROUNDNUT

GROUNDNUT FLOUR I
UF FLOUR (GROUNDNUT)
BT OILSEED FLOURS
RT GROUNDNUT
MYSORE FLOUR

GROWTH G
BT PLANT DEVELOPMENT

GROWTH-CHAMBER EXPERIMENTS M
BT LABORATORY EXPERIMENTS

GUINEA CORN J
BT FEED CONSTITUENTS
RT SORGHUMS

Gums
USE ADHESIVES

HARVESTING B
RT CULTIVATION
TIMING

HCN L
UF HYDROGEN CYANIDE
PRUSSIC ACID
BT CYANOGEN
RT CYANIDES
CYANOGENIC GLYCOSIDES
DETOXIFICATION
HCN ABSORPTION
HCN CONTENT

HCN ABSORPTION — L
BT TOXICITY
RT ABSORPTION
HCN

HCN CONTENT — H
BT COMPOSITION
RT BITTER CASSAVA
HCN
SWEET CASSAVA
TOXICITY

(HEALTH) — (No category letter)
NT ANIMAL HEALTH
HUMAN HEALTH

Heat
USE TEMPERATURE

HELIANTHUS TUBEROSUS — A
SN Use only for comparative data
UF JERUSALEM ARTICHOKES
TOPINAMBOUR
BT STARCH CROPS

Helminthosporium hispaniolae
USE CERCOSPORA HENNINGSII

Helminthosporium manihotis
USE CERCOSPORA HENNINGSII

HEPATIC DISORDERS — K
UF LIVER DISORDERS
RT HUNGER OEDEMA

HERBICIDES — B
SN Do not define more narrowly
UF WEEDKILLERS
BT WEEDING
RT PLANT-GROWTH SUBSTANCES

HETEROZYGOSIS — E
BT GENETICS

High-protein
USE PROTEIN CONTENT

HISTIDINE H
BT AMINO ACIDS

HISTORY A
RT PLANT GEOGRAPHY

HOEING B
BT WEEDING

Hogs
USE SWINE

Hormones (plant)
USE PLANT-GROWTH SUBSTANCES

HOT WATER TREATMENTS C
BT VIRUS INHIBITION
RT TEMPERATURE

HUMAN HEALTH K
(BT HEALTH)
RT DEFICIENCY DISEASES
MALNUTRITION
TOXICOLOGY

HUMAN NUTRITION K
UF NUTRITION (HUMAN)
NT DIETS
MALNUTRITION
NUTRIENT LOSS
NUTRITIVE VALUE
RT BIOCHEMISTRY
COOKING
FOOD PRODUCTS
HUMAN PHYSIOLOGY

HUMAN PHYSIOLOGY K
SN Restrict to applications in relation to cassava, e.g. nutrition and toxicology
BT PHYSIOLOGY
RT HUMAN NUTRITION
TOXICOLOGY

HUNGER OEDEMA K
SN Use only in relation to cassava diets
UF EDEMA (HUNGER)
OEDEMA (HUNGER)

BT MALNUTRITION
RT ANAEMIA
CELLULAR HYDRAEMIA
ENDOCRINE DISORDERS
HEPATIC DISORDERS
HYPOALBUMINAEMIA

HYBRIDIZING E
BT PLANT BREEDING
RT CROSSBREEDING
HYBRIDS

HYBRIDS E
RT CULTIVARS
HYBRIDIZING

Hydremia (cellular)
USE CELLULAR HYDRAEMIA

Hydrogen cyanide
USE HCN

Hydrogen-ion concentration
USE pH

HYDROLYSIS L
RT DETOXIFICATION
ENZYMES

HYDROXOCOBALAMIN H
UF VITAMIN B12a
VITAMIN B12b
BT VITAMIN B12

HYPOALBUMINAEMIA K
RT HUNGER OEDEMA

IDENTIFICATION A
UF BOTANICAL KEYS
RT TAXONOMY

ILLUMINATION B
UF ARTIFICIAL ILLUMINATION
BT LIGHT

Importing
USE TRADE

Impoverishment (soil)
USE SOIL IMPOVERISHMENT

INCOME M
BT ECONOMICS

INDUSTRIAL MACHINERY M
BT INDUSTRIALIZATION
RT PROCESSING

INDUSTRIAL MICROBIOLOGY D
UF BACTERIA (BENEFICIAL)
FUNGI (BENEFICIAL)
MICROBIOLOGY (INDUSTRIAL)
NT AEROBACTER CLOACAE
CORYNEBACTERIUM
GEOTRICHUM CANDIDUM
RHIZOPUS STOLONIFER
RT FERMENTATION

INDUSTRIAL STARCHES I
UF STARCH (INDUSTRIAL)
BT USES
NT ADHESIVES
DRILLING MUDS
GLUCOSE INDUSTRY
TEXTILES
RT CASSAVA STARCH
INDUSTRIALIZATION
PARTICLE SIZE

INDUSTRIALIZATION M
BT DEVELOPMENT
NT FACTORIES
INDUSTRIAL MACHINERY
RT INDUSTRIAL STARCHES
MECHANIZATION
WASTE UTILIZATION
WATER REQUIREMENTS (PROCESSING)

INFLORESCENCES F
BT PLANT ANATOMY
NT FLOWERS

INHERITANCE E
RT PLANT BREEDING

INJURIOUS INSECTS C
SN Restrict NTs to important pests, and enter others under this descriptor
UF INSECT PESTS
INSECTS (NOXIOUS)
BT NOXIOUS ANIMALS
NT ALEYRODIDAE
ANASTREPHA PICKELI
AONIDOMYTILUS ALBUS
CECIDOMYIIDAE
COELOSTERNUS GRANICOLLIS
COELOSTERNUS MANIHOTI
COELOSTERNUS NOTATICEPS
COELOSTERNUS RUGICOLLIS
ERINNYIS ALOPE
ERINNYIS ELLO
EUTHRIPS MANIHOTI
LAGOCHIRUS OBSOLETUS
LEUCOPHOLIS RORIDA
LONCHAEA CHALYBEA
MICROGASTER FLAVIVENTRIS
PHENACOCCUS
SCIRTOTHRIPS MANIHOTI
SILBA PENDULA
RT ENTOMOLOGY
VECTORS

INJURIOUS MITES C
UF ACARIDS
MITE PESTS
MITES (NOXIOUS)
BT NOXIOUS ANIMALS
NT MONONYCHELLUS TANAJOA
TETRANYCHUS CINNABARINUS
TETRANYCHUS URTICAE
RT ENTOMOLOGY

Injurious nematodes
USE NEMATODES

INSECT AGENTS C
BT BIOLOGICAL CONTROL
NT TRICHOGRAMMA MINUTUM

INSECT CONTROL C
UF CONTROL (INSECT)
BT PEST CONTROL

NT INSECTICIDES
RT BIOLOGICAL CONTROL
ENTOMOLOGY

Insect pests
USE INJURIOUS INSECTS

INSECTICIDES C
SN Do not define more narrowly
BT INSECT CONTROL

Insects (noxious)
USE INJURIOUS INSECTS

INSOLATION B
UF SUNLIGHT
BT LIGHT

INTER-CROPPING B
BT CULTIVATION SYSTEMS

International trade
USE TRADE

Intoxification
USE TOXICITY

IODINE K
RT THIOCYANATES
DEFICIENCY DISEASES

IPOMOEA BATATAS A
RT SWEET-POTATOES

IRON H
BT MINERALS

IRRIGATION B
RT WATER REQUIREMENTS (PLANT)

ISOLATION M
BT LABORATORY EXPERIMENTS
RT DISEASES AND PATHOGENS

Jams
USE FRUIT PRESERVES

Jatropha dulcis
USE MANIHOT ESCULENTA

Jatrophobia brasiliensis
USE EUDIPLOSIS BRASILIENSIS

Jatrophavirus flavescens
USE CASSAVA BROWN STREAK VIRUS

Jatrophavirus maculans
USE CASSAVA MOSAIC VIRUS

Jerusalem artichokes
USE HELIANTHUS TUBEROSUS

K H
UF POTASSIUM
BT MINERALS
RT FERTILIZERS
MANURES
POTASH
POTASSIUM CHLORIDE

KAKAYAKE I
BT BAKERY PRODUCTS

Kaspe
USE CASSAVA

Keeping qualities
USE DETERIORATION

Konkonte
USE DRIED TUBERS

KPOKPO GARI I
BT GARI

Kwanga
USE CHICKWANGUE

KWASHIORKOR K
UF RED BABY
BT MALNUTRITION

LABORATORY ANIMALS M
RT LABORATORY EXPERIMENTS

LABORATORY EXPERIMENTS M
BT RESEARCH
NT GROWTH-CHAMBER EXPERIMENTS
CULTURE MEDIA
ISOLATION
TRACERS
RT LABORATORY ANIMALS

Lablab
USE DOLICHOS LABLAB

LABOUR M
UF MANPOWER
WORKERS
BT ECONOMICS
RT COSTS

LACTIC ACID D
BT FERMENTATION

Lactoflavin
USE RIBOFLAVIN

LAGOCHIRUS OBSOLETUS C
UF LONGICORN TWIG-BORER
BT INJURIOUS INSECTS

LAMBS J
BT SHEEP

LAND PREPARATION B
RT CULTIVATION

LANDANG I
UF CASSAVA RICE
RICE (CASSAVA)
BT CASSAVA MEAL

LASIODIPLODIA C
BT MYCOSES

Laws
USE LEGAL ASPECTS

Leaf
USE LEAVES

LEAF AREA F
RT LEAVES
PHOTOSYNTHESIS

Leaf curl
USE CASSAVA LEAF CURL

Leaf stalks
USE PETIOLES

LEAVES F
UF LEAF
BT PLANT ANATOMY
NT PETIOLES
STOMATA
RT CASSAVA LEAVES (VEGETABLE)
FOLIAGE
PLANT VASCULAR SYSTEM
LEAF AREA

LEGAL ASPECTS M
UF STANDARDS
REGULATIONS
LAWS
RULES
BT TRADE
RT PROCESSING
CASSAVA PRODUCTS

LEUCOPHOLIS RORIDA C
BT INJURIOUS INSECTS

LIGHT B
BT CLIMATIC REQUIREMENTS
NT ILLUMINATION
INSOLATION
RT PHOTOPERIOD

LIMA BEANS L
SN Use only for information on toxic principle and its decomposition or reduction
UF BEANS (LIMA)
MADAGASCAR BEANS
RT LINAMARIN

LINAMARASE L
UF LINASE
BT ENZYMES
RT LINAMARIN

LINAMARIN L
SN Use only for information on decomposition
UF MANIHOTOXIN
PHASEOLUNATIN
BT CYANOGENIC GLYCOSIDES
RT ALANINE
LIMA BEANS
LINAMARASE
RHODANESE

Linase
USE LINAMARASE

Lipids
USE FAT CONTENT

LIQUID ADHESIVES I
BT ADHESIVES

Liver disorders
USE HEPATIC DISORDERS

Livestock
USE DOMESTIC ANIMALS

LODGING C
RT PHYSIOLOGICAL DISORDERS (PLANT)

LONCHAEA CHALYBEA C
UF CARPOLONCHAEA CHALYBEA
CASSAVA SHOOT-TIP FLY
BT INJURIOUS INSECTS
RT GALLS

Longicorn twig-borer
USE LAGOCHIRUS OBSOLETUS

Loss of nutrients
USE NUTRIENT LOSS

Loss of yield
USE PRODUCTIVITY

LOTAUSTRALIN L
BT CYANOGENIC GLYCOSIDES
RT VALINE

Lucerne
USE ALFALFA

LYSINE H
BT AMINO ACIDS

Macaroni (tapioca)
USE TAPIOCA MACARONI

Madagascar beans
USE LIMA BEANS

MAGNESIUM H
BT MINERALS

MAIZE A
SN Use only for comparative data
UF CORN
BT CEREALS
RT MAIZE FLOUR
MAIZE MEAL

MAIZE FLOUR I
UF FLOUR (MAIZE)
BT FLOURS
RT COMPOSITE FLOURS
MAIZE

MAIZE MEAL J
BT FEED CONSTITUENTS
RT MAIZE
MEALS

Malanga
USE COCOYAMS

MALNUTRITION K
BT HUMAN NUTRITION
NT HUNGER OEDEMA
KWASHIORKOR
RT HUMAN HEALTH

MALTOSE H
BT SUGAR CONTENT

Mandihoba
USE MANIHOT GLAZIOVII

Mandioca
USE CASSAVA

MANGANESE H
BT MINERALS

Manicoba
USE MANIHOT GLAZIOVII

Manicoba da Sao Francisco
USE MANIHOT HEPTAPHYLLA

Manicoba de Jequie
USE MANIHOT DICHOTOMA

Manicoba de Piauhy
USE MANIHOT PIAUHYENSIS

MANIHOT A
(BT EUPHORBIACEAE)
NT MANIHOT ANGUSTILOBA
MANIHOT CARTHAGENENSIS
MANIHOT DICHOTOMA
MANIHOT ESCULENTA
MANIHOT GLAZIOVII
MANIHOT HEPTAPHYLLA
MANIHOT JOLYANA
MANIHOT MELANOBASIS
MANIHOT PIAUHYENSIS
MANIHOT POHLII
MANIHOT PRINGLEI
MANIHOT SAXICOLA
MANIHOT TWEEDIEANA
RT TAXONOMY

Manihot (Brazilian)
USE CASSAVA

Manihot aipi
USE MANIHOT ESCULENTA

MANIHOT ANGUSTILOBA A
BT MANIHOT

MANIHOT CARTHAGENENSIS A
UF CUADRADO
XACHE
YUCA DEL MONTE
YUQUILLA
BT MANIHOT

MANIHOT DICHOTOMA A
UF MANICOBA DE JEQUIE
BT MANIHOT
RT MANIHOT OIL

Manihot dulcis
USE MANIHOT ESCULENTA

MANIHOT ESCULENTA A
UF AIPI
JATROPHA DULCIS
MANIHOT AIPI
MANIHOT DULCIS
MANIHOT PALMATUS
MANIHOT UTILISSIMA
BT MANIHOT
RT CASSAVA

MANIHOT GLAZIOVII A
UF CEARA RUBBER PLANT
MANDIHOBA
MANICOBA
BT MANIHOT
RT CEARA RUBBER
MANIHOT OIL

MANIHOT HEPTAPHYLLA A
UF MANICOBA DA SAO FRANCISCO
BT MANIHOT

MANIHOT JOLYANA A
BT MANIHOT

MANIHOT MELANOBASIS A
BT MANIHOT

MANIHOT OIL A
UF CEARA RUBBER OIL
RT MANIHOT DICHOTOMA
MANIHOT GLAZIOVII
MANIHOT PIAUHYENSIS

Manihot palmatus
USE MANIHOT ESCULENTA

MANIHOT PIAUHYENSIS A
UF MANICOBA DE PIAUHY
BT MANIHOT
RT MANIHOT OIL
PIAUHY RUBBER

MANIHOT POHLII A
BT MANIHOT

MANIHOT PRINGLEI A
BT MANIHOT

MANIHOT SAXICOLA A
BT MANIHOT

MANIHOT TWEEDIEANA A
BT MANIHOT

Manihot utilissima
USE MANIHOT ESCULENTA

Manihot virus 1
USE CASSAVA MOSAIC VIRUS

Manihot virus 2
USE CASSAVA BROWN STREAK VIRUS

Manihotoxin
USE LINAMARIN

Manioc
USE CASSAVA

Manioca
USE CASSAVA

Manipuera
USE CASSAREEP

Manpower
USE LABOUR

MANURES B
BT NUTRITIONAL REQUIREMENTS
NT DUNG
GREEN MANURES
RT K
N
P

MAPS A
RT PLANT GEOGRAPHY

MARANTA A
BT STARCH CROPS

Market
USE CONSUMPTION

MARKETING M
NT TRADE
RT DISTRIBUTION
ECONOMICS
PRODUCTION
SOCIO-ECONOMIC ASPECTS

MATURATION G
BT PLANT DEVELOPMENT
RT FLOWERING

Meal (cassava)
USE CASSAVA MEAL

MEALS J
SN Meals other than cassava used in animal feeds with cassava
RT BLOOD MEAL
BONE MEAL
CACAO POD MEAL
COTTONSEED MEAL
COWPEA MEAL
FEED CONSTITUENTS
FISH MEAL
MAIZE MEAL
MEAT MEAL
PALM-KERNEL MEAL
WHEAT MEAL

MEAT MEAL J
BT FEED CONSTITUENTS
RT MEALS

MEAT PRESERVATION I
BT PRESERVATIVES
RT CASSAREEP

Mechanical damage
USE PLANT INJURIES

MECHANIZATION M
RT CULTIVATION
INDUSTRIALIZATION
PROCESSING
AGRICULTURAL EQUIPMENT

Medicaments
USE THERAPEUTANTS

Meristems (apical)
USE APICAL MERISTEMS

METABOLISM G
RT PHOTOSYNTHESIS

METHIONINE H
BT AMINO ACIDS

Microbiology (industrial)
USE INDUSTRIAL MICROBIOLOGY

MICROGASTER FLAVIVENTRIS C
BT INJURIOUS INSECTS

MICROSPOROGENESIS E
BT CYTOGENETICS
RT POLLEN

MILK J
BT FEED CONSTITUENTS
RT DAIRY CATTLE

Milk (cassava)
USE CASSAVA MILK

Milk cows
USE DAIRY CATTLE

MILLET FLOUR I
UF FLOUR (MILLET)
BT FLOURS
RT COMPOSITE FLOURS
MILLETS

MILLETS A
SN Use only for comparative data
BT CEREALS
RT MILLET FLOUR

Milling
USE GRINDING

MINERAL CONTENT H
BT COMPOSITION
RT MINERALS

MINERAL DEFICIENCIES K
BT DEFICIENCIES
RT CHLOROSIS
MINERALS

MINERALS H
SN As nutritional requirements of cassava, man, and domestic animals
NT ALUMINIUM
BORON
Ca
COPPER
IRON
K
MAGNESIUM
MANGANESE
MOLYBDENUM
P
S
SODIUM
Zn
RT FEED CONSTITUENTS
MINERAL CONTENT
MINERAL DEFICIENCIES

MITE CONTROL C
UF CONTROL (MITE)
BT PEST CONTROL
NT ACARICIDES
RT BIOLOGICAL CONTROL
ENTOMOLOGY

Mite pests
USE INJURIOUS MITES

Mites (noxious)
USE INJURIOUS MITES

Miticides
USE ACARICIDES

MODIFIED STARCHES I
RT CASSAVA STARCH

Moisture
USE WATER REQUIREMENTS (PLANT)

MOLASSES J
BT FEED CONSTITUENTS

Molds (fungal)
USE MOULDS

MOLYBDENUM H
BT MINERALS

Mononycheilus tanajoa
USE MONONYCHELLUS TANAJOA

MONONYCHELLUS TANAJOA C
UF MONONYCHEILUS TANAJOA
MONONYCHUS TANAJOA
TETRANYCHUS TANAJOA
BT INJURIOUS MITES

Mononychus tanajoa
USE MONONYCHELLUS TANAJOA

Monosodium glutamate
USE MSG

MORPHOGENESIS G
UF EMBRYOLOGY (PLANT)
PLANT EMBRYOLOGY
BT PLANT DEVELOPMENT

Morphology (plant)
USE PLANT ANATOMY

Mosaic disease
USE CASSAVA MOSAIC VIRUS

MOSAIC DISEASES C
RT CASSAVA AFRICAN MOSAIC VIRUS
CASSAVA COMMON MOSAIC VIRUS
CASSAVA MOSAIC VIRUS
CASSAVA VEIN MOSAIC VIRUS

MOULDS C
UF MOULDS (FUNGAL)
RT AFLATOXINS
ASPERGILLUS
DETERIORATION
MYCOSES

MSG I
UF MONOSODIUM GLUTAMATE
BT FOOD PRODUCTS

MUSA A
(BT MUSACEAE)
RT BANANA-PLANTAINS
BANANAS

MUTATION E
BT PLANT BREEDING
RT COLCHICINE

Mycoplasmal diseases
USE MYCOPLASMOSES

MYCOPLASMOSES C
UF DISEASES (MYCOPLASMAL)
MYCOPLASMAL DISEASES
BT DISEASES AND PATHOGENS

MYCOSES C
SN Includes pathogens. Restrict NTs to important diseases or pathogens, and enter others under this descriptor
UF DISEASES (FUNGAL)
FUNGAL DISEASES
BT DISEASES AND PATHOGENS
NT ALTERNARIA
ASPERGILLUS
CASSAVA SUPERELONGATION
CERCOSPORA CARIBAEA
CERCOSPORA HENNINGSII
DIPLODIA
FOMES LIGNOSUS
FUSARIUM
GLOEOSPORUM MANIHOTIS
GLOMERELLA CINGULATA
LASIODIPLODIA
PHOMA
PHYLLOSTICTA
PHYTOPHTHORA DRECHSLERI
ROSELLINIA
SCLEROTIUM ROLFSII
UROMYCES MANIHOTIS
RT DISEASE TRANSMISSION
MOULDS

Mycosphaerella manihotis
USE CERCOSPORA HENNINGSII

MYSORE FLOUR I
UF FLOUR (MYSORE)
BT COMPOSITE FLOURS
RT GROUNDNUT FLOUR
CASSAVA FLOUR

N (No category letter)
UF NITROGEN
RT AMMONIUM SULPHATE
FERTILIZERS
MANURES
PROTEINS
SODIUM NITRATE
UREA

Natural distribution
USE PLANT GEOGRAPHY

NEMATODES C
UF EELWORMS
INJURIOUS NEMATODES
BT NOXIOUS ANIMALS

Neuropathy (ataxic tropical)
USE ATAXIC NEUROPATHY

Niacin
USE NICOTINIC ACID

NICOTINIC ACID H
UF NIACIN
BT VITAMIN CONTENT

NITRITOCOBALAMIN H
UF VITAMIN B12c
BT VITAMIN B12

Nitrogen
USE N

Nomenclature (plant)
USE TAXONOMY

NOXIOUS ANIMALS C
BT PESTS
NT INJURIOUS INSECTS
INJURIOS MITES
NEMATODES
RODENTS

NUTRIENT LOSS K
UF LOSS OF NUTRIENT
BT ANIMAL NUTRITION
HUMAN NUTRITION
RT NUTRITIVE VALUE
PROCESSING

NUTRIENT UPTAKE G
BT PLANT PHYSIOLOGICAL PROCESSES
RT TRANSLOCATION

Nutrition (animal)
USE ANIMAL NUTRITION

Nutrition (human)
USE HUMAN NUTRITION

NUTRITIONAL REQUIREMENTS B
SN Of cassava
BT CULTIVATION
NT FERTILIZERS
MANURES
RT PHOTOSYNTHESIS
PLANT PHYSIOLOGICAL PROCESSES
SOIL FERTILITY

NUTRITIVE VALUE K
UF FOOD VALUE
BT ANIMAL NUTRITION
HUMAN NUTRITION
RT DIETARY VALUE
NUTRIENT LOSS
SUPPLEMENTS

OATS J
BT FEED CONSTITUENTS

Ochrosticta bemisiae
USE CASSAVA MOSAIC VIRUS

Oedema (hunger)
USE HUNGER OEDEMA

Oedema (toxic)
USE TOXIC OEDEMA

OILSEED FLOURS I
UF FLOURS (OILSEED)
BT FLOURS
NT COTTONSEED FLOUR
GROUNDNUT FLOUR
RT COMPOSITE FLOURS

ORGANOLEPTIC EXAMINATION K
RT PALATABILITY

ORNITHINE H
BT AMINO ACIDS

OVARIES F
BT FLOWERS

NT OVULES

Ovens
USE DRYING

OVULES F
BT OVARIES

OXALIC ACID H
BT COMPOSITION

P
UF PHOSPHORUS
BT MINERALS
RT CALCIUM SUPERPHOSPHATE
FERTILIZERS
MANURES

PACHYRHIZUS A
SN Use only for comparative data
UF AHIPA
WAYAKA YAMBEAN
YAMBEAN
BT STARCH CROPS

PACKAGING M
RT DISTRIBUTION
USES

PALATABILITY K
UF FLAVOUR
TASTE
BT DIETARY VALUE
RT ORGANOLEPTIC EXAMINATION

PALM-KERNEL MEAL J
BT FEED CONSTITUENTS
RT MEALS

PAPER INDUSTRY I
BT INDUSTRIAL STARCHES

PARTICLE BOARD I
UF BOARD
RESIN BOARD
BT WASTE UTILIZATION

PARTICLE SIZE — I
SN Of starches
RT FOOD PRODUCTS
INDUSTRIAL STARCHES

PASTA — I
RT TAPIOCA MACARONI

PATENTS — (No category letter)

Pathogens
USE DISEASES AND PATHOGENS

Pathology (plant)
USE DISEASES AND PATHOGENS

Peanut
USE GROUNDNUT

Pearls (tapioca)
USE TAPIOCA PEARLS

PEDICELS — F
BT FLOWERS

Peel
USE CORTEX

PEELING — D
UF DECORTICATION
BT PROCESSING
RT DETOXIFICATION PROCESSES
RASPING

Pelletizing plants
USE FACTORIES

PELLETS — J
UF CASSAVA PELLETS
BT FEEDS AND FEEDING
RT CASSAVA CHIPS
BROKEN ROOTS

PEST CONTROL — C
NT DISEASE CONTROL
INSECT CONTROL
MITE CONTROL

RT WEEDING
PESTS
RESISTANCE

PEST DAMAGE C
NT DEFOLIATION
RT PESTS
PLANT INJURIES

PESTS C
NT DISEASES AND PATHOGENS
NOXIOUS ANIMALS
WEEDS
RT DETERIORATION
ECOLOGY
PEST CONTROL
PEST DAMAGE

PETIOLES F
UF LEAF STALKS
STALKS (LEAF)
BT LEAVES

pH (No category letter)
UF ACIDITY
ALKALINITY
HYDROGEN-ION CONCENTRATION

PHARMACEUTICALS I
BT USES
RT DEXTROSE
FILLERS
THERAPEUTANTS

Phaseolunatin
USE LINAMARIN

PHASEOLUS VULGARIS A
RT BEANS

PHENACOCCUS C
BT INJURIOUS INSECTS

PHENOLOGY B
RT CLIMATIC REQUIREMENTS
ECOLOGY
PLANT PHYSIOLOGY

PHOMA C
BT MYCOSES

Phosphorus
USE P

PHOTOPERIOD B
RT LIGHT

PHOTOSYNTHESIS G
BT PLANT PHYSIOLOGICAL PROCESSES
RT METABOLISM
NUTRITIONAL REQUIREMENTS
PLANT ASSIMILATION
LEAF AREA

PHYLLOSTICTA C
BT MYCOSES

Physical damage
USE PLANT INJURIES

PHYSIOLOGICAL DISORDERS (PLANT) C
SN Disorders in growing plants; for physiological deterioration of stored tubers, use DETERIORATION
BT DISEASES AND PATHOGENS
RT LODGING

Physiological processes (plant)
USE PLANT PHYSIOLOGICAL PROCESSES

PHYSIOLOGY (No category letter)
NT ANIMAL PHYSIOLOGY
HUMAN PHYSIOLOGY
PLANT PHYSIOLOGY
RT BIOCHEMISTRY

Phytogeography
USE PLANT GEOGRAPHY

Phytomonas francai
USE XANTHOMONAS MANIHOTIS

Phytomonas manihotis (or - us)
USE XANTHOMONAS MANIHOTIS

Phytopathology
USE DISEASES AND PATHOGENS

PHYTOPHTHORA DRECHSLERI C
BT MYCOSES

PIAUHY RUBBER A
RT MANIHOT PIAUHYENSIS

PIGLETS J
BT SWINE

Pigments
USE PLANT PIGMENTS

Pigs
USE SWINE

PLANT ANATOMY F
UF ANATOMY (PLANT)
MORPHOLOGY (PLANT)
PLANT MORPHOLOGY
NT FRUITS
INFLORESCENCES
LEAVES
PLANT VASCULAR SYSTEM
ROOT SYSTEM
ROOTS
STEMS
TUBERS
RT PLANT TISSUES

PLANT ASSIMILATION G
UF ASSIMILATION (PLANT)
BT PLANT PHYSIOLOGICAL PROCESSES
RT PHOTOSYNTHESIS

PLANT BREEDING E
UF BREEDING (PLANT)
GENETIC IMPROVEMENT
NT BACKCROSSING
HYBRIDIZING
MUTATION
SELFING
RT CULTIVARS
CYTOGENETICS
GENETICS

INHERITANCE
PLANT FERTILITY
RESISTANCE
SEED
SELECTION
TISSUE CULTURE

PLANT DEVELOPMENT G
UF DEVELOPMENT (PLANT)
BT PLANT PHYSIOLOGY
NT GROWTH
MATURATION
MORPHOGENESIS
RT DEVELOPMENTAL STAGES
PHOTOPERIOD
PLANT HEIGHT

Plant embryology
USE MORPHOGENESIS

PLANT FERTILITY E
UF FERTILITY (PLANT)
RT PLANT BREEDING
GERMINATION
PLANT REPRODUCTION

PLANT GEOGRAPHY A
UF DISTRIBUTION (NATURAL)
GEOGRAPHY (PLANT)
NATURAL DISTRIBUTION
PHYTOGEOGRAPHY
RT ECOLOGY
HISTORY
MAPS

PLANT-GROWTH SUBSTANCES B
UF HORMONES (PLANT)
PLANT HORMONES
RT HERBICIDES
PROPAGATION

PLANT HEIGHT G
RT PLANT DEVELOPMENT

Plant hormones
USE PLANT-GROWTH SUBSTANCES

PLANT INJURIES C
UF MECHANICAL DAMAGE
PHYSICAL DAMAGE
RT PEST DAMAGE

Plant morphology
USE PLANT ANATOMY

Plant pathology
USE DISEASES AND PATHOGENS

PLANT PHYSIOLOGICAL PROCESSES G
UF PHYSIOLOGICAL PROCESSES (PLANT)
BT PLANT PHYSIOLOGY
NT NUTRIENT UPTAKE
PHOTOSYNTHESIS
PLANT ASSIMILATION
PLANT RESPIRATION
TRANSPIRATION
RT NUTRITIONAL REQUIREMENTS

PLANT PHYSIOLOGY G
UF PHYSIOLOGY (PLANT)
BT PHYSIOLOGY
NT PLANT DEVELOPMENT
PLANT PHYSIOLOGICAL PROCESSES
PLANT REPRODUCTION
RT PLANT PIGMENTS

PLANT PIGMENTS G
UF PIGMENTS
XANTHOPHYLS
RT PLANT PHYSIOLOGY

PLANT REPRODUCTION G
UF REPRODUCTION (PLANT)
BT PLANT PHYSIOLOGY
NT POLLINATION
RT PLANT FERTILITY
PROPAGATION

PLANT RESPIRATION G
UF RESPIRATION (PLANT)
BT PLANT PHYSIOLOGICAL PROCESSES

PLANT TISSUES F
NT APICAL MERISTEMS

RT PLANT ANATOMY
TISSUE CULTURE

PLANT VASCULAR SYSTEM F
UF VASCULAR SYSTEM (PLANT)
BT PLANT ANATOMY
RT LEAVES
ROOT SYSTEM
ROOTS
STEMS

Plantains
USE BANANA-PLANTAINS

PLANTING B
BT CULTIVATION
NT SPACING
RT TIMING

Plot tests
USE FIELD EXPERIMENTS

PLOUGHING B
BT CULTIVATION

Poisoning
USE TOXICITY

Policies
USE DEVELOPMENT

POLLEN F
BT ANTHERS
MICROSPOROGENESIS
RT POLLINATION

POLLINATION G
BT PLANT REPRODUCTION
RT POLLEN

POLYPLOIDY E
BT CYTOGENETICS

POTASH B
BT FERTILIZERS
RT K

Potassium
USE K

POTASSIUM CHLORIDE B
BT FERTILIZERS
RT K

POTATO FLOUR I
UF FLOUR (POTATO)
BT FLOURS
RT COMPOSITE FLOURS
POTATOES

POTATOES A
SN Use only for comparative data. Do not use for sweet-potatoes, q.v.
UF SOLANUM TUBEROSUM
BT STARCH CROPS
RT POTATO FLOUR

POULTRY J
UF CHICKENS
FOWLS
BT DOMESTIC ANIMALS
NT CHICKS
RT EGGS

POWER SOURCES M
BT FACTORIES

PRESERVATIVES I
BT USES
NT MEAT PRESERVATION

Preserves
USE FRUIT PRESERVES

Presses
USE PRESSING

PRESSING D
UF PRESSES
SQUEEZING
TIPITI
BT PROCESSING

PRICE MAINTENANCE M
BT PRICES

PRICES M
SN Use for cassava products and comparative data only
BT ECONOMICS
NT PRICE MAINTENANCE
RT CASSAVA PRODUCTS

PROCESSED PRODUCTS I
BT CASSAVA PRODUCTS
NT CASSAREEP
CASSAVA BEER
CASSAVA FLOUR
CASSAVA MEAL
CASSAVA STARCH
DRIED TUBERS
PULP
RT FERMENTED PRODUCTS

PROCESSING D
SN Processing of tubers to the manufacture (but not use) of cassava products
NT BOILING
CENTRIFUGING
DRYING
FERMENTATION
GELATINIZATION
GRINDING
PEELING
PRESSING
PULPING
RASPING
SCREENING
SILTING
SMALL-SCALE PROCESSING
STEEPING
WASHING
RT INDUSTRIAL MACHINERY
LEGAL ASPECTS
MECHANIZATION
NUTRIENT LOSS
VISCOSITY
WATER REQUIREMENTS (PROCESSING)

Product applications
USE USES

PRODUCTION M
RT ECONOMICS
FACTORIES
FORESTRY
MARKETING

Production costs
USE COSTS

PRODUCTIVITY M
UF LOSS OF YIELD
YIELDS
NT ENERGY PRODUCTIVITY
STARCH PRODUCTIVITY
TUBER PRODUCTIVITY
RT WASTES

Products (cassava)
USE CASSAVA PRODUCTS

PROPAGATION B
BT CULTIVATION
NT GRAFTING
RT PLANT-GROWTH SUBSTANCES
PLANT REPRODUCTION
PROPAGATION MATERIALS

PROPAGATION MATERIALS B
NT CUTTINGS
SEED
RT CLONES
PROPAGATION

PROTEIN CONTENT H
UF HIGH-PROTEIN
BT COMPOSITION
NT AMINO ACIDS
RT PROTEINS

PROTEIN DEFICIENCIES K
BT DEFICIENCIES

PROTEIN ENRICHMENT I and J
UF FOOD ENRICHMENT

BT FEEDS AND FEEDING
FOOD PRODUCTS
RT PROTEINS

PROTEINS H
RT CASSAVA CHEESE
N
PROTEIN CONTENT
PROTEIN ENRICHMENT
YEAST PRODUCTION

PRUNING B
BT CULTIVATION

Prussic acid
USE HCN

PSEUDOMONAS C
UF SAPOREMA
BT BACTERIOSES

Pseudomonas manihotis
USE XANTHOMONAS MANIHOTIS

PULP I
BT PROCESSED PRODUCTS
RT PULPING

Pulpers
USE PULPING

PULPING D
UF PULPERS
BT PROCESSING
RT DETOXIFICATION PROCESSES
PULP

Radioactive tracers
USE TRACERS

RAINFALL DATA B
RT CLIMATIC REQUIREMENTS
ECOLOGY
WATER REQUIREMENTS (PLANT)

RASPING D
UF GRATERS

BT PROCESSING
RT DETOXIFICATION PROCESSES
PEELING

RATS C
SN Rats as pests. For experimental use of rats, use LABORATORY ANIMALS
BT RODENTS

Red baby
USE KWASHIORKOR

Refuse
USE WASTES

Regulations
USE LEGAL ASPECTS

Reproduction (plant)
USE PLANT REPRODUCTION

RESEARCH M
UF EXPERIMENTATION
NT DEVELOPMENTAL RESEARCH
FIELD EXPERIMENTS
LABORATORY EXPERIMENTS
RT EXPERIMENT DESIGN

Resin board
USE PARTICLE BOARD

RESISTANCE C
SN Restrict to resistance of cassava cultivars to adverse factors
UF TOLERANCE
RT PLANT BREEDING
PEST CONTROL

Respiration (plant)
USE PLANT RESPIRATION

Retting
USE STEEPING

RHIZOPUS STOLONIFER D
BT INDUSTRIAL MICROBIOLOGY

RHODANESE L
BT ENZYMES
RT LINAMARIN

RIBOFLAVIN H
UF LACTOFLAVIN
VITAMIN B2
BT VITAMIN B

RICE A
SN Only as rotational or inter crop, or for comparative data
BT CEREALS
RT GROUNDNUT RICE
RICE BRAN
ROTATIONAL CROPS

Rice (cassava)
USE LANDANG

RICE BRAN J
BT FEED CONSTITUENTS
RT BRANS
RICE

RODENTS C
BT NOXIOUS ANIMALS
NT RATS

ROLL-DRIED ADHESIVES I
BT ADHESIVES

Root meal (cassava)
USE CASSAVA MEAL

ROOT SYSTEM F
BT PLANT ANATOMY
RT PLANT VASCULAR SYSTEM
ROOTS

ROOTING G
BT DEVELOPMENTAL STAGES
RT ROOTS

ROOTS F
SN Use for true roots, not tubers
BT PLANT ANATOMY

RT PLANT VASCULAR SYSTEM
ROOT SYSTEM
ROOTING

ROSELLINIA C
BT MYCOSES

ROTATIONAL CROPS B
BT CULTIVATION SYSTEMS
RT COTTON
GROUNDNUT
RICE

RUBBER B
SN Only as a secondary crop; see also CEARA RUBBER and PIAUHY RUBBER
BT SECONDARY CROPS

Ruga bemisiae
USE CASSAVA MOSAIC VIRUS

Rules
USE LEGAL ASPECTS

Rural industries
USE SMALL-SCALE PROCESSING

S H
UF SULFUR
SULPHUR
BT MINERALS
RT AMINO ACIDS
AMMONIUM SULPHATE

SAGO A
SN Sago is sometimes erroneously used for TAPIOCAS, q.v.
RT SAGO PALMS

SAGO PALMS A
SN Use only for comparative data
BT STARCH CROPS
SAGO

Saporema
USE PSEUDOMONAS

SAVANNAS A
RT ECOLOGY

SCIRTOTHRIPS MANIHOTI C
BT INJURIOUS INSECTS

SCLEROTIUM ROLFSII C
BT MYCOSES

Scratch-coco
USE TARO

SCREENING D
UF BOLTING
SIFTING
BT PROCESSING
RT CENTRIFUGING

Season
USE TIMING

SECONDARY CROPS B
UF CROPS (SECONDARY)
BT CULTIVATION SYSTEMS
NT RUBBER

Sedimentation
USE SILTING

SEED B
BT PROPAGATION MATERIALS
RT PLANT BREEDING
FRUITS
GERMINATION

Seeds (tapioca)
USE TAPIOCA SEEDS

SELECTION E
RT PLANT BREEDING

SELFING E
BT PLANT BREEDING

SEPALS F
BT FLOWERS

Septogloeum manihotis
USE CERCOSPORA HENNINGSII

Setts
USE CUTTINGS

SHEEP J
BT DOMESTIC ANIMALS
NT LAMBS

SHIFTING CULTIVATION B
UF SWIDDEN CULTIVATION
BT CULTIVATION SYSTEMS

SHOOTS F
RT STEMS

Sifting
USE SCREENING

SILAGE J
UF ENSILAGE
BT FEEDS AND FEEDING

SILBA PENDULA C
BT INJURIOUS INSECTS

SILTING D
UF SEDIMENTATION
BT PROCESSING
NT SILTING AGENTS

SILTING AGENTS D
BT SILTING
RT ALUMINIUM SULPHATE
CALCIUM CHLORIDE
CHLORIDE
SULPHUR DIOXIDE
SULPHURIC ACID

SMALL-SCALE EQUIPMENT M
BT DEVELOPMENT
RT SMALL-SCALE PROCESSING

SMALL-SCALE PROCESSING D
UF COTTAGE MACHINERY
RURAL INDUSTRIES

BT PROCESSING
RT CASSAVA PRODUCTS
SMALL-SCALE EQUIPMENT

SOCIO-ECONOMIC ASPECTS M
RT ECONOMICS
MARKETING

SODIUM H
BT MINERALS

SODIUM NITRATE B
UF CHILE SALTPETRE
CHILEAN NITRATE
BT FERTILIZERS
NT N

SODIUM STEARYL LACTYLATE I
BT BREAD IMPROVERS

SOIL AMENDMENTS B
BT SOIL REQUIREMENTS
NT FERTILIZERS
SOIL CONDITIONERS

SOIL ANALYSIS B
UF ANALYSIS (SOIL)
RT SOIL FERTILITY

SOIL CONDITIONERS B
BT SOIL AMENDMENTS

SOIL FERTILITY B
UF FERTILITY (SOIL)
BT SOIL REQUIREMENTS
NT SOIL IMPOVERISHMENT
RT FALLOWING
NUTRITIONAL REQUIREMENTS
SOIL ANALYSIS

SOIL IMPOVERISHMENT B
UF IMPOVERISHMENT (SOIL)
BT SOIL FERTILITY

SOIL MOISTURE B
BT SOIL REQUIREMENTS
RT WATER REQUIREMENTS (PLANT)

Starch factories
USE FACTORIES

STARCH PRODUCTIVITY M
BT PRODUCTIVITY

STATISTICAL ANALYSIS (No category letter)
UF ANALYSIS (STATISTICAL)
STATISTICAL DECISION THEORY

Statistical decision theory
USE STATISTICAL ANALYSIS

STEEPING D
UF RETTING
BT PROCESSING
RT DETOXIFICATION PROCESSES

Stem lesion disease
USE CASSAVA BROWN STREAK VIRUS

STEMS F
BT PLANT ANATOMY
RT BRANCHING
CUTTINGS
PLANT VASCULAR SYSTEM
SHOOTS
WASTES

STOMATA F
BT LEAVES

STORAGE M
UF STORED PRODUCTS
RT DETERIORATION
DISTRIBUTION

Stored products
USE STORAGE

SUCROSE H
BT SUGAR CONTENT

SUGAR CONTENT H
BT CARBOHYDRATE CONTENT
NT FRUCTOSE

GLUCOSE
MALTOSE
SUCROSE

Sulfur
USE S

Sulphate of ammonia
USE AMMONIUM SULPHATE

Sulphur
USE S

SULPHUR DIOXIDE D
UF SULPHUROUS ACID
RT SILTING AGENTS

SULPHURIC ACID D
RT SILTING AGENTS

Sulphurous acid
USE SULPHUR DIOXIDE

Sun-drying
USE SOLAR DRYING

Sunlight
USE INSOLATION

Superbrotamento
USE CASSAVA COMMON MOSAIC VIRUS

Superelongation
USE CASSAVA SUPERELONGATION

Superphosphate of lime
USE CALCIUM SUPERPHOSPHATE

SUPPLEMENTS I
RT FEED CONSTITUENTS
FOOD PRODUCTS
NUTRITIVE VALUE

SWEET CASSAVA A
BT CASSAVA
RT HCN CONTENT

SWEET-POTATOES A
SN Use only for comparative data
BT STARCH CROPS
RT IPOMOEA BATATAS
YAMS

Sweets
USE CONFECTIONERIES

Swidden cultivation
USE SHIFTING CULTIVATION

SWINE J
UF HOGS
PIGS
BT DOMESTIC ANIMALS
NT PIGLETS

Synthetic rice
USE TAPIOCA MACARONI

Syrups
USE CONFECTIONERIES

Systematics (plant)
USE TAXONOMY

Taphrina manihoticola
USE SPHACELOMA MANIHOTICOLA

Tapioca fancies
USE TAPIOCAS

TAPIOCA FLAKES I
UF FLAKES (TAPIOCA)
BT TAPIOCAS

Tapioca flour
USE CASSAVA STARCH

TAPIOCA GRISTS I
UF GRISTS (TAPIOCA)
BT TAPIOCAS

TAPIOCA MACARONI I
SN Formulations of cassava and other flours producing pasta-like products

UF MACARONI (TAPIOCA)
SYNTHETIC RICE
BT CASSAVA FLOUR
RT PASTA

TAPIOCA PEARLS I
UF PEARLS (TAPIOCA)
BT TAPIOCAS

Tapioca plant
USE CASSAVA

TAPIOCA SEEDS I
SN Refers to a type of processed tapioca and not to the seed of cassava for which SEED should be used
UF SEEDS (TAPIOCA)
BT TAPIOCAS

TAPIOCAS I
SN Tapiocas may sometimes be erroneously referred to as sago, and care must therefore be taken in assigning that term
UF TAPIOCA FANCIES
BT CASSAVA STARCH
NT TAPIOCA FLAKES
TAPIOCA GRISTS
TAPIOCA PEARLS
TAPIOCA SEEDS

TARO A
SN Use only for comparative data
UF COCO
SCRATCH-COCO
BT COLOCASIA
RT COLOCASIA ESCULENTA

Taste
USE PALATABILITY

TAXONOMY A
UF CHEMOTAXONOMY
CLASIFICATION (PLANT)
NOMENCLATURE (PLANT)
SYSTEMATICS (PLANT)
RT IDENTIFICATION
MANIHOT

TEMPERATURE B
UF HEAT
BT CLIMATIC REQUIREMENTS
RT HOT WATER TREATMENTS

Tetranychus bimaculatus
USE TETRANYCHUS URTICAE

TETRANYCHUS CINNABARINUS C
UF TETRANYCHUS TELARIUS AUCT
BT INJURIOUS MITES

Tetranychus tanajoa
USE MONONYCHELLUS TANAJOA

Tetranychus telarius auct.
USE TETRANYCHUS CINNABARINUS

Tetranychus telarius (Linn.)
USE TETRANYCHUS URTICAE

TETRANYCHUS URTICAE C
UF TETRANYCHUS BIMACULATUS
TETRANYCHUS TELARIUS (LINN)
BT INJURIOUS MITES

TEXTILES I
BT INDUSTRIAL STARCHES

THERAPEUTANTS I
SN Medical and magical uses of cassava
UF MEDICAMENTS
BT USES
RT PHARMACEUTICALS

THIAMIN H
UF ANEURIN
VITAMIN B1
BT VITAMIN B

Thickeners (food)
USE FOOD THICKENERS

THIOCYANATES L
RT CYANIDES
IODINE

THREONINE H
BT AMINO ACIDS

TILLERING G
BT DEVELOPMENTAL STAGES

TIMING B
UF AGE
SEASON
RT HARVESTING
PLANTING

Tipiti
USE PRESSING

TISSUE CULTURE E
UF CULTURE (TISSUE)
RT PLANT BREEDING
APICAL MERISTEMS

TOBACCO LEAF CURL VIRUS C
RT CASSAVA LEAF CURL

Tolerance
USE RESISTANCE

Topinambour
USE HELIANTHUS TUBEROSUS

TOXIC OEDEMA L
UF EDEMA (TOXIC)
OEDEMA (TOXIC)
BT CLINICAL MANIFESTATIONS

TOXICITY L
UF INTOXIFICATION
POISONING
NT HCN ABSORPTION
RT ANTIBODIES
BIOCHEMISTRY
DETOXIFICATION
HCN CONTENT
TOXICOLOGY

TOXICOLOGY L
SN Restrict to cassava-related toxicology

NT CLINICAL MANIFESTATIONS
RT ANIMAL HEALTH
ANIMAL PHYSIOLOGY
HUMAN HEALTH
HUMAN PHYSIOLOGY
TOXICITY

TRACERS M
UF RADIOACTIVE TRACERS
BT LABORATORY EXPERIMENTS

TRADE M
UF COMMERCE
EXPORTING
IMPORTING
INTERNATIONAL TRADE
BT MARKETING
NT LEGAL ASPECTS

TRANSLOCATION G
RT NUTRIENT UPTAKE

TRANSPIRATION G
BT PLANT PHYSIOLOGICAL PROCESSES
RT CANOPY
WATER REQUIREMENTS (PLANT)

Transportation
USE DISTRIBUTION

TRICHOGRAMMA MINUTUM C
NT INSECT AGENTS

TRYPTOPHANE H
BT AMINO ACIDS

TUBER DEVELOPMENT G
UF TUBER FORMATION
BT DEVELOPMENTAL STAGES
RT TUBERS

Tuber formation
USE TUBER DEVELOPMENT

TUBER PRODUCTIVITY M
BT PRODUCTIVITY

TUBERS F
SN Not to be used for true roots
BT PLANT ANATOMY
NT CORTEX
RT COMPOSITION
TUBER DEVELOPMENT

Tucupay
USE CASSAREEP

TYROSINE H
BT AMINO ACIDS

Ubi ketella
USE CASSAVA

Ungulina lignosa
USE FOMES LIGNOSUS

Unprocessed products
USE FRESH PRODUCTS

UREA B
BT FERTILIZERS
RT N

UROMYCES MANIHOTIS C
BT MYCOSES

USES I
UF PRODUCT APPLICATIONS
NT FEEDS AND FEEDING
FERMENTED PRODUCTS
FOOD PRODUCTS
INDUSTRIAL STARCHES
PHARMACEUTICALS
PRESERVATIVES
THERAPEUTANTS
RT CASSAVA PRODUCTS
PACKAGING
WASTE UTILIZATION

VALINE H
BT AMINO ACIDS
RT LOTAUSTRALIN

Varieties
USE CULTIVARS

Vascular system (plant)
USE PLANT VASCULAR SYSTEM

VECTORS C
UF DISEASE CARRIERS
NT ALEYRODIDAE
EUTHRIPS MANIHOTI
RT DISEASE TRANSMISSION

Vegetable cheese
USE CASSAVA CHEESE

Vein mosaic disease
USE CASSAVA VEIN MOSAIC VIRUS

VIROSES C
SN Includes pathogens. Restrict NTs to important diseases, and enter others under this descriptor
UF DISEASES (VIRUS)
VIRUS DISEASES
BT DISEASES AND PATHOGENS
NT CASSAVA AFRICAN MOSAIC VIRUS
CASSAVA BROWN STREAK VIRUS
CASSAVA COMMON MOSAIC VIRUS
CASSAVA LEAF CURL
CASSAVA MOSAIC VIRUS
CASSAVA VEIN MOSAIC VIRUS
RT CHLOROSIS
DISEASE TRANSMISSION
VECTORS
VIRUS INHIBITION

Virus diseases
USE VIROSES

VIRUS INHIBITION C
BT DISEASE CONTROL
NT ANTISERA
HOT WATER TREATMENTS
RT VIROSES

Virus transmission
USE DISEASE TRANSMISSION

VISCOSITY D
SN Of starch
RT PROCESSING

VITAMIN A H
BT VITAMIN CONTENT

VITAMIN B H
BT VITAMIN CONTENT
NT RIBOFLAVIN
THIAMIN
VITAMIN B12

Vitamin B1
USE THIAMIN

Vitamin B2
USE RIBOFLAVIN

VITAMIN B12 H
BT VITAMIN B
NT CYANOCOBALAMIN
HYDROXOCOBALAMIN
NITRITOCOBALAMIN

Vitamin B12a
USE HYDROXOCOBALAMIN

Vitamin B12b
USE HYDROXOCOBALAMIN

Vitamin B12c
USE NITRITOCOBALAMIN

Vitamin C
USE ASCORBIC ACID

VITAMIN CONTENT H
BT COMPOSITION
NT ASCORBIC ACID
NICOTINIC ACID
VITAMIN A
VITAMIN B

VITAMIN DEFICIENCIES K
BT DEFICIENCIES

WASHING D
BT PROCESSING
RT DETOXIFICATION PROCESSES

WASTE UTILIZATION I
NT PARTICLE BOARD
RT FEEDS AND FEEDING
INDUSTRIALIZATION
WASTES

WASTES M
UF AMPAS
REFUSE
RT PRODUCTIVITY
STEMS
WASTE UTILIZATION

WATER CONTENT H
BT COMPOSITION

WATER REQUIREMENTS (PLANT) B
UF MOISTURE
BT CULTIVATION
RT CLIMATIC REQUIREMENTS
ECOLOGY
IRRIGATION
SOIL MOISTURE
SOIL REQUIREMENTS
TRANSPIRATION
RAINFALL DATA

WATER REQUIREMENTS (PROCESSING) D
RT INDUSTRIALIZATION
PROCESSING

Wayake yambean
USE PACHYRHIZUS

Weed control
USE WEEDING

WEEDING B
UF WEED CONTROL
BT CULTIVATION
NT HERBICIDES
HOEING
RT PEST CONTROL
WEEDS

Weedkillers
USE HERBICIDES

WEEDS C
SN Do not use descriptors for specific weeds
BT PESTS
RT WEEDING

WHEAT BRAN J
BT FEED CONSTITUENTS
RT BRANS

WHEAT FLOUR I
UF FLOUR (WHEAT)
BT FLOURS
RT COMPOSITE FLOURS

WHEAT MEAL J
BT FEED CONSTITUENTS
RT MEALS

White dextrins
USE DEXTRINS

White thread disease
USE FOMES LIGNOSUS

Whiteflies
USE ALEYRODIDAE

Witches broom
USE CASSAVA COMMON MOSAIC VIRUS

Work plans
USE DEVELOPMENT

Work programs
USE DEVELOPMENT

Workers
USE LABOUR

Xache
USE MANIHOT CARTHAGENENSIS

XANTHOMONAS MANIHOTIS C
UF BACILLUS MANIHOTIS

PHYTOMONAS FRANCAI
PHYTOMONAS MANIHOTIS (or - US)
PSEUDOMONAS MANIHOTIS
BT BACTERIOSES

XANTHOSOMA SAGITTIFOLIUM A
RT COCOYAMS

Yambean
USE PACHYRHIZUS

Yampi
USE YAMS

YAMS A
SN Use only for comparative data
UF CUSH-CUSH
YAMPI
BT STARCH CROPS
RT COCOYAMS
DIOSCOREA
SWEET-POTATOES

YEAST PRODUCTION I
BT FERMENTED PRODUCTS
RT PROTEINS

Yellow dextrins
USE DEXTRINS

Yields
USE PRODUCTIVITY

Yuca
USE CASSAVA

Yuca del monte
USE MANIHOT CARTHAGENENSIS

Yuquilla
USE MANIHOT CARTHAGENENSIS

Zinc
USE Zn

Zn H
UF ZINC
BT MINERALS

SECTION 3

GEOGRAPHICAL INDEX

(Compiled by Jorge López S.)

Abyssinia
  USE ETHIOPIA

AFRICA
  NT ANGOLA
  CAMEROON
  CENTRAL AFRICAN REPUBLIC
  CHAD
  CONGO
  DAHOMEY
  EGYPT
  ETHIOPIA
  GABON
  GHANA
  GUINEA
  IVORY COAST
  KENYA
  MALAGASY REPUBLIC
  MOZAMBIQUE
  NIGER
  NIGERIA
  RHODESIA
  SENEGAL
  SEYCHELLES
  SIERRA LEONE
  SUDAN
  TANZANIA
  TOGO
  UGANDA
  ZAIRE

AMERICA
  NT CARIBBEAN
  CENTRAL AMERICA
  NORTH AMERICA
  SOUTH AMERICA
  RT LATIN AMERICA

American Virgin Islands
  USE VIRGIN ISLANDS (USA)

ANGOLA
BT AFRICA
RT PORTUGUESE WEST AFRICA

ARGENTINA
BT SOUTH AMERICA

ASIA
NT INDIA
INDONESIA
JAPAN
KHMER
MALAYSIA
PAKISTAN
PHILIPPINES
SRI LANKA
TAIWAN
THAILAND
VIETNAM DEMOCRATIC REPUBLIC
VIETNAM REPUBLIC

Australasia
USE OCEANIA

AUSTRALIA
UF COMMONWEALTH OF AUSTRALIA
BT OCEANIA
RT PAPUA AND NEW GUINEA

Bandunda
USE ZAIRE

BELGIUM
BT EUROPE

Berlin (East)
USE GERMAN DEMOCRATIC REPUBLIC

Berlin (West)
USE GERMAN FEDERAL REPUBLIC

BOLIVIA
BT SOUTH AMERICA

BRAZIL
UF UNITED STATES OF BRAZIL
BT SOUTH AMERICA

BRITISH HONDURAS
  UF HONDURAS (BRITISH)
  BT CENTRAL AMERICA
  RT UNITED KINGDOM

Cambodia
  USE KHMER

CAMEROON
  UF CAMEROUN
  BT AFRICA

Cameroun
  USE CAMEROON

CANADA
  BT NORTH AMERICA

CANARY ISLANDS
  BT EUROPE
  RT SPAIN

CARIBBEAN
  BT AMERICA
  NT CUBA
     DOMINICAN REPUBLIC
     GUADELOUPE
     HAITI
     JAMAICA
     NETHERLANDS ANTILLES
     PUERTO RICO
     TRINIDAD AND TOBAGO
     VIRGIN ISLANDS (USA)
     WEST INDIES ASSOCIATED STATES
  RT LATIN AMERICA

CENTRAL AFRICAN REPUBLIC
  BT AFRICA

CENTRAL AMERICA
  BT AMERICA
  NT BRITISH HONDURAS
     COSTA RICA
     EL SALVADOR
     GUATEMALA
     HONDURAS
     NICARAGUA

PANAMA
RT LATIN AMERICA

Ceylon
USE SRI LANKA

CHAD
UF TCHAD
BT AFRICA

CHILE
BT SOUTH AMERICA

China (Taiwan)
USE TAIWAN

COLOMBIA
BT SOUTH AMERICA

Commonwealth of Australia
USE AUSTRALIA

CONGO
UF CONGO (BRAZZAVILLE)
MIDDLE CONGO
BT AFRICA

Congo (Brazzaville)
USE CONGO

Congo Democratic Republic
USE ZAIRE

Congo (Kinshasa)
USE ZAIRE

Congo (Leopoldville)
USE ZAIRE

Congo Orientale
USE ZAIRE

COSTA RICA
BT CENTRAL AMERICA

CUBA
BT CARIBBEAN

DAHOMEY
BT AFRICA

DBR
USE GERMAN FEDERAL REPUBLIC

DDR
USE GERMAN DEMOCRATIC REPUBLIC

Djawa
USE JAVA

DOMINICAN REPUBLIC
BT CARIBBEAN

East Berlin
USE GERMAN DEMOCRATIC REPUBLIC

Eastern Germany
USE GERMAN DEMOCRATIC REPUBLIC

ECUADOR
BT SOUTH AMERICA

EGYPT
UF UNITED ARAB REPUBLIC
BT AFRICA

EL SALVADOR
UF SALVADOR
BT CENTRAL AMERICA

ENGLAND
BT UNITED KINGDOM

Equateur
USE ZAIRE

EUROPE
(BT EURASIA)
NT BELGIUM
CANARY ISLANDS
FRANCE
GERMAN DEMOCRATIC REPUBLIC
GERMAN FEDERAL REPUBLIC
GIBRALTAR
ITALY

NETHERLANDS
SWEDEN
UNITED KINGDOM

ETHIOPIA
UF ABYSSINIA
BT AFRICA

FIJI
BT OCEANIA

Formosa
USE TAIWAN

FRANCE
BT EUROPE
RT FRENCH GUIANA
REUNION

FRENCH GUIANA
BT SOUTH AMERICA
RT FRANCE
GUIANAS

GABON
BT AFRICA

GERMAN DEMOCRATIC REPUBLIC
UF BERLIN (EAST)
DDR
EAST BERLIN
EASTERN GERMANY
BT EUROPE

GERMAN FEDERAL REPUBLIC
UF BERLIN (WEST)
DBR
WEST BERLIN
WESTERN GERMANY
BT EUROPE

GHANA
BT AFRICA

GIBRALTAR
BT EUROPE
RT UNITED KINGDOM

GUADELOUPE
  BT CARIBBEAN

GUATEMALA
  BT CENTRAL AMERICA

GUIANAS
  RT FRENCH GUIANA
     GUYANA
     SURINAM

GUINEA
  BT AFRICA

GUYANA
  BT SOUTH AMERICA
  RT GUIANAS

HAITI
  BT CARIBBEAN

Holland
  USE NETHERLANDS

HONDURAS
  BT CENTRAL AMERICA

Honduras (British)
  USE BRITISH HONDURAS

INDIA
  BT ASIA

INDOCHINA
  RT KHMER
     VIETNAM DEMOCRATIC REPUBLIC
     VIETNAM REPUBLIC

INDONESIA
  BT ASIA
  NT JAVA

ITALY
  BT EUROPE

IVORY COAST
  BT AFRICA

JAMAICA
  BT CARIBBEAN

JAPAN
  BT ASIA

JAVA
  UF DJAWA
  BT INDONESIA

Kasai
  USE ZAIRE

Katanga
  USE ZAIRE

KENYA
  BT AFRICA

KHMER
  UF CAMBODIA
  BT ASIA
  RT INDOCHINA

Kinshasa
  USE ZAIRE

Kivu
  USE ZAIRE

LATIN AMERICA
  RT AMERICA
     CARIBBEAN
     CENTRAL AMERICA
     MEXICO
     SOUTH AMERICA

Madagascar
  USE MALAGASY REPUBLIC

MALAGASY REPUBLIC
  UF MADAGASCAR
  BT AFRICA

MALAYSIA
  BT ASIA

MEXICO
  UF UNITED MEXICAN STATES
  BT NORTH AMERICA
  RT LATIN AMERICA

MICRONESIA
  RT TRUST TERRITORY OF PACIFIC ISLANDS

Middle Congo
  USE CONGO

MOZAMBIQUE
  UF PORTUGUESE EAST AFRICA
  BT AFRICA

NETHERLANDS
  UF HOLLAND
  BT EUROPE
  RT NETHERLANDS ANTILLES
     SURINAM

NETHERLANDS ANTILLES
  BT CARIBBEAN
  RT NETHERLANDS

NEW GUINEA
  RT PAPUA AND NEW GUINEA

NEW ZEALAND
  BT OCEANIA

NICARAGUA
  BT CENTRAL AMERICA

NIGER
  BT AFRICA

NIGERIA
  BT AFRICA

NORTH AMERICA
  BT AMERICA
  NT CANADA
     MEXICO
     USA

North Vietnam
USE VIETNAM DEMOCRATIC REPUBLIC

OCEANIA
UF AUSTRALASIA
NT AUSTRALIA
FIJI
MICRONESIA
NEW ZEALAND
PAPUA AND NEW GUINEA
POLYNESIA

PAKISTAN
BT ASIA

PANAMA
BT CENTRAL AMERICA

PARAGUAY
BT SOUTH AMERICA

PAPUA AND NEW GUINEA
BT OCEANIA
RT AUSTRALIA
NEW GUINEA

PERU
BT SOUTH AMERICA

PHILIPPINES
BT ASIA

POLYNESIA
BT OCEANIA

Porto Rico
USE PUERTO RICO

Portuguese East Africa
USE MOZAMBIQUE

PORTUGUESE WEST AFRICA
RT ANGOLA

PUERTO RICO
UF PORTO RICO
BT CARIBBEAN

RT USA

REUNION
BT AFRICA
RT FRANCE

RHODESIA
BT AFRICA

Salvador
USE EL SALVADOR

SCOTLAND
BT UNITED KINGDOM

SENEGAL
BT AFRICA

SEYCHELLES
BT AFRICA
RT UNITED KINGDOM

SIERRA LEONE
BT AFRICA

SOUTH AMERICA
BT AMERICA
NT ARGENTINA
BOLIVIA
BRAZIL
CHILE
COLOMBIA
ECUADOR
FALKLAND ISLANDS
FRENCH GUIANA
GUYANA
PERU
PARAGUAY
SURINAM
URUGUAY
VENEZUELA
RT LATIN AMERICA

South Vietnam
USE VIETNAM REPUBLIC

SRI LANKA
UF CEYLON
BT ASIA

SUDAN
BT AFRICA

SURINAM
BT SOUTH AMERICA
RT GUIANAS
NETHERLANDS

SWEDEN
BT EUROPE

TAIWAN
UF CHINA (TAIWAN)
FORMOSA
BT ASIA

TANZANIA
UF UNITED REPUBLIC OF TANZANIA
BT AFRICA

Tchad
USE CHAD

THAILAND
BT ASIA

Tobago
USE TRINIDAD AND TOBAGO

TOGO
BT AFRICA

TRINIDAD AND TOBAGO
UF TOBAGO
BT CARIBBEAN

TRUST TERRITORY OF PACIFIC ISLANDS
RT MICRONESIA

UGANDA
BT AFRICA

UK
  USE UNITED KINGDOM

United Arab Republic
  USE EGYPT

UNITED KINGDOM
  UF UK
     UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND
  BT EUROPE
  NT ENGLAND
     SCOTLAND
  RT BRITISH HONDURAS
     GIBRALTAR
     SEYCHELLES
     WEST INDIES ASSOCIATED STATES

United Kingdom of Great Britain and Northern Ireland
  USE UNITED KINGDOM

United Mexican States
  USE MEXICO

United Republic of Tanzania
  USE TANZANIA

United States of America
  USE USA

United States of Brazil
  USE BRAZIL

United States Virgin Islands
  USE VIRGIN ISLANDS (USA)

URUGUAY
  BT SOUTH AMERICA

USA
  UF UNITED STATES OF AMERICA
  BT NORTH AMERICA
  RT PUERTO RICO
     VIRGIN ISLANDS (USA)

VENEZUELA
  BT SOUTH AMERICA

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