



Evaluation of Sorghum Germplasm for Resistance to Insect Pests



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Abstract

Sorghum is one of the most important cereal crops in the semi-arid tropics. Nearly 150 insect species have been reported to damage this crop worldwide, causing an estimated loss of more than US\$ 1,000 million annually. Of these, sorghum shoot fly [*Atherigona soccata*], stem borers (*Chilo partellus*, *Busseola fusca*, and *Diatraea* spp), sorghum midge [*Stenodiplosis sorghicola*], and head bugs (*Calocoris angustatus* and *Eurystylus oldi*) are the major pests worldwide. Host-plant resistance is one of the most effective means of controlling insect pests in sorghum. ICRISAT holds 36,700 accessions of the sorghum germplasm from all over the world. Therefore, extensive screening of the sorghum germplasm was undertaken, and several stable sources of resistance to the key insect pests have been identified. This information bulletin lists the reactions of the sorghum germplasm accessions to the key pests. This list can be made use of while selecting lines with resistance to the target pests for use in sorghum improvement.

Evaluation of Sorghum Germplasm for Resistance to Insect Pests

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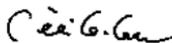
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Foreword

Sorghum is one of the most important cereal crops in the semi-arid tropics. It is damaged by over 150 insect species, of which sorghum shoot fly (*Atherigona soccata*), stem borers (*Chilo partellus*, *Busseola fusca*, and *Diatraea* spp), greenbug (*Schizaphis graminum*), sorghum midge (*Stenodiplosis sorghicola*), and head bugs (*Calocoris angustatus* and *Eurystylus oldi*) are the most important pests worldwide. Avoidable losses due to insects have been estimated to be over 32% in India, 9% in USA, and 20% in Africa. In monetary terms, the losses due to insect pests have been estimated to be over US\$ 1,000 million annually. Cultural practices such as early and uniform sowing of cultivars with similar maturity, biological control (particularly the use of larval parasitoids such as *Cotesia flavipes* and *Sturmiopsis inferens* for the control of stem borers), insect-resistant cultivars, and need based application of insecticides are the principal methods of insect control in sorghum. In rainfed agriculture, it is difficult to plant at times when insect damage can be avoided. The technology to utilize natural enemies for insect control in the classical sense needs to be standardized, and the effective natural enemies need to be either introduced into different sorghum growing regions or be made available to the farmers in time for releasing in the field. Insecticides are costly, and beyond the reach of resource-poor farmers in the semi-arid tropics. Therefore, host-plant resistance, which does not involve any cost input by the farmers, can form an important component of pest management in sorghum. Insect-resistant cultivars are not only compatible with other methods of pest control, but are also environment-friendly.

ICRISAT has over 36,700 sorghum germplasm accessions in the genebank, which serves as a global repository of the sorghum germplasm. These materials will serve as a source of genes for resistance to biotic and abiotic stresses that limit the production and productivity of this crop worldwide. Therefore, an extensive exercise was undertaken at ICRISAT to screen the sorghum germplasm collection for resistance to the key sorghum insect pests such as sorghum shoot fly, stem borer, sorghum midge, and head bugs. Several germplasm accessions with moderate to high levels of resistance have been identified against the target pests. I am sure that the information on the reactions of various germplasm accessions will be of immense value to scientists worldwide for use in sorghum improvement. I hope that this information bulletin will serve as a useful source of information for utilization of sorghum germplasm, particularly for developing insect-resistant cultivars, for sustainable sorghum production in future.



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Director General
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Introduction

Sorghum (*Sorghum bicolor*) is an important cereal crop in Asia, Africa, Americas, and Australia. Grain yields in farmers' fields in Asia and Africa are generally low (500 to 800 kg ha⁻¹) mainly due to insect pest damage. Nearly 150 insect species have been reported as pests on sorghum (Jotwani et al. 1980, Sharma 1993), of which sorghum shoot fly (*Atherigona soccata*), stem borers (*Chilo partellus*, *Busseola fusca*, *Eldana saccharina*, and *Diatraea* spp), armyworms (*Mythimna separata*, *Spodoptera frugiperda*, and *S. exempta*), shoot bug (*Peregrinus maidis*), aphids (*Schizaphis graminum* and *Melanaphis sacchari*), spider mites (*Oligonychus* spp), grasshoppers and locusts (*Hieroglyphus*, *Oedaleus*, *Aliopus*, *Schistocerca*, and *Locusta*), sorghum midge (*Stenodiplosis sorghicola*), head bugs (*Calocoris angustatus* and *Eurystylus oldi*), and head caterpillars (*Helicoverpa*, *Eublemma*, *Cryptoblabes*, *Pyroderces*, and *Nola*) are the major pests worldwide. Amongst these, sorghum shoot fly, spotted stem borer, midge, and head bugs are the key pests worldwide. Annual losses due to insect pests differ in magnitude on a regional basis and have been estimated at US\$ 1,089 million in the semi-arid tropics (SAT), US\$ 250 million in USA, and US\$ 80 million in Australia (ICRISAT 1992). In India, nearly 32% of sorghum crop is lost due to insect pests (Borad and Mittal 1983), and sorghum midge and head bugs result in 4.6 to 84% losses in sorghum grain, which at the minimum infestation level of 4.6% is equivalent to US\$ 100 million annually (Leuschner and Sharma 1983).

Host-plant resistance is one of the most effective means of pest management in sorghum. It is compatible with other methods of pest control, does not involve extra cost for the farmers, and is environment-friendly. There are over 36,700 germplasm accessions of sorghum in the genebank at the International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), Patancheru, India, which serves as a global repository of the sorghum germplasm. We have undertaken an extensive exercise to screen the sorghum germplasm collection for resistance to the key sorghum pests, viz., sorghum shoot fly (*A. soccata*), spotted stem borer (*C. partellus*), sorghum midge (*S. sorghicola*), and head bugs (*C. angustatus* and *E. oldi*). The biology, nature of damage, and the techniques followed to evaluate the germplasm accessions for resistance to these insect species have been described below.

Sorghum Shoot Fly

Biology and nature of damage

Sorghum shoot fly (*A. soccata*) is a key pest of sorghum in Asia, Africa, and the Mediterranean Europe. Shoot fly females lay cigar-shaped eggs singly on the lower surface of the leaves at 1- to 7-leaf stage, i.e., 5 to 25 days after seedling emergence. Eggs hatch in 1 to 2 days, and the larvae move along the shoot to the growing point. The first-instar larva cuts the growing point, which results in wilting and drying of the central leaf, known as a deadheart (Fig. 1a). The deadheart produces a bad smell and can be pulled out easily. Normally, the damage occurs at one week to four weeks after seedling emergence. The damaged plants produce side tillers, which may also be attacked. Larval development is completed in 8 to 10 days and pupation takes place mostly in the soil. The pupal period lasts for 8 days. The entire life cycle is completed in 17 to 21 days. The sorghum shoot fly population increases in July, peaks in August to September, and declines thereafter. Infestations are high when sorghum plantings are staggered due to erratic rainfall. Shoot fly infestations are normally high in the postrainy season crop planted in September to October. Temperatures above 35°C and below 18°C, and continuous rainfall reduce shoot fly survival. During the off-season, the insect survives on alternate hosts such as *Echinochloa colonum*, *E. proceras*, *Cymbopogon* sp, *Paspalum scrobiculatum*, and *Pennisetum glaucum* as well as on volunteer/fodder sorghum.

Resistance-screening techniques

Interlard fish meal technique

Adequate levels of shoot fly infestation for resistance screening can be achieved by manipulating the sowing date, using infester rows, and spreading fish meal (which attracts the shoot flies) in the field (Fig. 1b). Shoot fly populations can be monitored through fish meal-baited traps to determine the peak periods of activity. This information can be used for planting the test material so that the susceptible stage of the crop (7- to 25-day-old seedlings) coincides with the optimum shoot fly pressure. This results in considerable differences in infestation between the resistant and susceptible lines. Late-sown crops are subjected to high shoot fly infestation. At ICRISAT, Patancheru, sowing the test material in mid-July in the rainy season, and during October in the post-rainy season is effective to screen for resistance to shoot fly. The interlard fish meal technique, which is useful for increasing shoot fly abundance under field conditions, involves planting four rows of a susceptible sorghum cultivar (CSH 1 or CSH 5), sown 20 days before the sowing of test material. Fish meal is spread uniformly one week after seedling emergence or kept in plastic bags in interlards to attract shoot flies from the surrounding areas. One generation of the shoot fly is completed on interlards, and the emerging flies then infest the test material (Taneja and Leuschner 1985a, Sharma et al. 1992).

Cage-screening techniques

To confirm the resistance observed under field conditions, and to study the resistance mechanisms, the cage-screening technique developed by Soto (1972) has been modified to simulate field conditions. The shoot fly females are fed on yeast + glucose mixture (1:1). For a multi-choice test, the test genotypes are sown in the field in 3.4 m x 2 m beds, with a row spacing of 15 cm. Ten days after seedling emergence, the plants are covered with a screened cage (3.4 m x 2 m x 1 m) and 100 shoot flies are introduced into the cage. The shoot flies are collected from fishmeal-baited trap in the field in the morning, and the females of *A. soccata* are separated from other diptera flies (Sharma et al. 1992). The shoot fly females are confined in a wire-mesh screened cage (30 x 30 x 30 cm), and fed on a 1:1 mixture of brewer's yeast and glucose. The cage-screening technique can be used for multi-choice or no-choice tests. The numbers of eggs and deadhearts are recorded after a week. For no-choice tests, only one genotype is sown in each bed. Screening for resistance to shoot fly can also be carried out by using a small cage (Fig. 1c). This system consists of two plastic trays (40 cm x 30 cm x 14 cm), one for sowing the test material and the other one fitted with fine wire-mesh, which is clamped over the lower tray, thus forming a cage. Ten days after seedling emergence, 20 shoot flies are released into each cage through an opening, and observations are recorded on egg laying and deadheart formation. This cage can be used both for multi-choice and no-choice screening.

Damage evaluation for resistance screening

To evaluate the damage caused by sorghum shoot fly, the number of eggs, plants with eggs, and plants with deadhearts (Fig. 1d), and total number of plants at 14 and 21 days after seedling emergence are recorded. The total number of tillers, and number of tillers with productive panicles at maturity as a measure of the genotype recovery resistance are also recorded. Grain yield under protected and unprotected conditions can also be used as a measure of resistance to sorghum shoot fly.



a. Deadheart (inset: shoot fly)



b. Interlard fish meal technique



c. No-choice cage technique

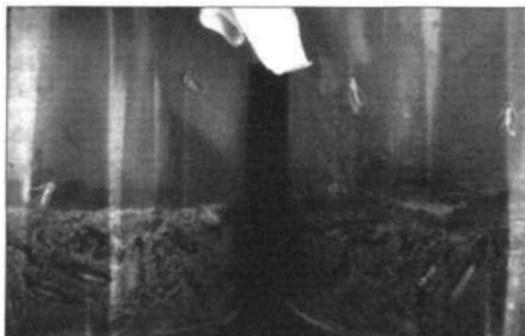


d. CSH 1 (susceptible) (left) and IS 18551 (resistant) (right)

Figure 1. Screening for resistance to sorghum shoot fly *Atherigona soccata*.



a. Leaf feeding by stem borer



b. Larvae in artificial diet



c. Oviposition cage



d. Field infestation with bazooka applicator

Figure 2. Screening for resistance to spotted stem borer *Chilo partellus* using artificial infestation.

Spotted Stem Borer

Biology and nature of damage

Spotted stem borer (*C. partellus*) is widely distributed in Asia and eastern and southern Africa. The first indication of stem borer infestation is the appearance of small, elongated windows in whorl leaves (Fig. 2a). The young larvae scratch the upper surface of the leaves, and the plant presents a ragged appearance as the severity of damage increases. The third-instar larvae migrate to the base of the plant, bore into the shoot, and damage the growing point, resulting in the production of a deadheart. Normally, two leaves dry up as a result of stem borer damage. Larvae continue to feed inside the stem throughout the crop growth. Extensive tunneling of the stem and peduncle leads to drying up of the panicle, production of partially chaffy panicles, or peduncle breakage. Stem borer infestation starts about 20 days after seedling emergence, and deadhearts appear on 30- to 40-day-old plants. A female lays up to 500 eggs in batches of 10 to 80 near the midrib on the undersurface of the leaves. Eggs hatch in 4 to 5 days, and the larval development is completed in 19 to 27 days. Pupation takes place inside the stem and the adults emerge in 7 to 10 days. During the off-season, the larvae diapause in plant stalks and stubbles. With the onset of rainy season, the larvae pupate and the adults emerge in 7 days. In northern India, moth catch in light traps begins to increase during the last week of July and peaks during August to September, while in southern India, the peak in moth catches has been recorded during January to February.

Resistance-screening techniques

Techniques to screen for resistance to spotted stem borer have been described by several workers (Jotwani 1978, Taneja and Leuschner 1985b, Sharma et al. 1992). The following techniques may be used to screen for resistance to spotted stem borer under natural and artificial infestation.

Screening under natural infestation

Hot-spots. Hot-spot locations, where the pest populations are known to occur naturally and regularly at levels that often result in severe damage, are ideal to test a large number of germplasm accessions. Hot-spot locations for *C. partellus* are Hisar in Haryana and Warangal in Andhra Pradesh, India; Agfoi and Baidoa in Somalia; Panmure and Mezarbani in Zimbabwe; Kiboko in Kenya; Golden Valley in Zambia; and Potchefstroom in South Africa.

Sowing date. To screen for resistance to the spotted stem borer under natural infestation, especially at hot-spot locations, the sowing date of the crop is adjusted such that the crop is at a susceptible stage (15- to 25-day-old seedlings) when the stem borer abundance is at its peak. The period of maximum borer abundance is determined through pheromone traps and light traps, or by monitoring borer infestation in the crop planted at regular intervals. In northern India, *C. partellus* is most abundant in August to September, and the crop sown between the 1st and 3rd week of July suffers maximum stem borer damage. At ICRISAT, Patancheru, maximum numbers of moths in the light traps have been recorded during September, followed by smaller peaks during November and February.

Mass rearing and artificial infestation

Mass rearing. Artificial infestation with laboratory-reared insects has been successfully used for several pest species, including *C. partellus*. Several diets have been developed for mass rearing of *C. partellus* (Dang et al. 1970, Siddiqui et al. 1977). An artificial diet to rear *C. partellus* has been standardized at ICRISAT (Taneja and Leuschner 1985b). Most of the ingredients of this diet [Fraction A: water 2 L, kabuli chickpea flour 438.4 g, brewer's yeast 32.0 g, sorbic acid 4.0 g, vitamin E (Viteolin capsules) 4.6 g, methyl parahydroxy benzoate 6.4 g, ascorbic acid 10.4 g, and sorghum leaf powder 160.0 g; Fraction B: agar-agar 40.8 g, water 1.6 L, and formaldehyde (40%) 3.2 ml] are locally available. For preparing sorghum leaf powder, the leaves from 35- to 40-day-old plants of a susceptible cultivar (such as CSH 1) are collected. The leaves are washed, dried in sunshine or in an oven at 65°C, ground into a fine powder, and autoclaved for 15 min at 120°C at 5 kg cm⁻² pressure. The leaf powder is stored in a sealed container in a cool dry place. The ingredients of fraction A (except the sorghum leaf powder) are blended for 1 min. The sorghum leaf powder is soaked in warm water (70°C) and blended with fraction A for 2 min. Agar-agar (fraction B) is boiled in 1.6 L of water, cooled to 40°C, combined with formaldehyde and fraction A, and then blended for 3 min. This diet (300 g) is poured in a 1-L plastic jar, and allowed to cool to room temperature. About 100 eggs at the black-head stage are placed in each jar, and the jars are kept in a dark room for 2 days. This discourages the photopositive behavior of the first-instar larvae, and they settle on the diet for feeding. After 2 days, the jars are transferred to the rearing room maintained at 28 ± 1°C, 60 to 70% relative humidity (RH), and 12 h photoperiod (Fig. 2b). On artificial diet, the larval period lasts for 22 to 28 days and the pupal period for 5 to 6 days. Moth emergence begins 30 days after larval inoculation, and continues up to the 40th day. Females emerge 2 to 3 days later than the males. The sex ratio is close to 1:1. Average moth emergence from this diet is 70 to 75%, with a maximum of up to 90%. Most of the moths emerge in 30 to 40 days after larval inoculation.

The moths are collected with aspirators attached to a vacuum cleaner or with hand-held aspirators. The male and female moths are collected separately (males are smaller in size with dark forewings and pointed abdomen), and transferred to the egg-laying cages. The oviposition cage is a wire-framed (36 mm holes) cylindrical cage (25 cm high and 25 cm in diameter) (Fig. 2c). A fine georgette cloth with 6 mm x 6 mm holes at regular intervals is fitted on the outer side of the cage. A sheet of white glycine paper (25 cm x 80 cm) is wrapped around the cage to serve as an oviposition site. Two plastic saucers covered with a mosquito net are placed at the bottom and the top of the cage. About 50 pairs of moths are released in an oviposition cage. A female lays 10 to 12 egg masses (500 to 600 eggs) over a period of 4 days. Maximum eggs are laid on the 2nd and 3rd day after emergence. The glycine paper is replaced daily. Moths are fed with water using a cotton swab. Egg hatching is drastically reduced when RH falls below 50%. To maintain high humidity, the glycine paper containing egg masses is hung on a rod in a plastic bucket containing water. The plastic bucket is covered with a lid. The eggs are stored at 26 ± 1°C. Under these conditions, the embryo matures to the black-head stage within 4 days. For long-term storage, black-head stage eggs are kept at 10°C. This delays egg hatching up to 15 days, and is very helpful for adjusting the planting and infestation of the test material.

Field infestation. For field infestation, the bazooka applicator developed for infesting maize (*Zea mays*) plants with stem borer, *Diatraea* spp and corn earworm, *Helicoverpa zea* (CIMMYT 1977), has been modified to suit the requirements for infesting sorghum (Fig. 2d). About 500 black-head stage egg masses along with 85 g of poppy (*Papaver* sp) seeds or maize cob grits (used as carrier) are kept overnight in a plastic jar with a tightly fitted lid. Next morning, the first-instar larvae are mixed

with the carrier and transferred to the plastic bottle of the bazooka applicator. About 15- to 20-day-old plants in the field are infested individually by placing the nozzle of the bazooka close to the leaf whorl. With a single stroke, 5 to 7 larvae are released into each plant whorl, which are sufficient to cause appreciable leaf feeding and >90% deadhearts in the susceptible genotypes. Deadheart formation decreases progressively as the infestation is delayed. For stem and peduncle tunneling, plants may be infested at 25 to 35 days after seedling emergence. The crop is infested in the morning between 0800 and 1100 h, when the temperatures are low (<25°C) and RH is high (>60%), to avoid larval mortality. The bazooka applicator is rotated after every 10 plants to ensure uniformity in larval distribution. The number of larvae per plant can be regulated by varying the number of egg masses mixed with the carrier in each applicator. A second infestation may be required if it rains immediately after first infestation. Shoot fly infestation interferes with screening for resistance to stem borer. Fenvalerate or endosulfan is sprayed one week before artificial infestation with spotted stem borer to suppress shoot fly infestation. It is also helpful to sow the test material early in the season when shoot fly infestation is negligible.

Damage evaluation for resistance screening

Spotted stem borer attack in sorghum causes leaf damage, deadheart formation, stem and peduncle tunneling, and production of chaffy panicles. Leaf injury is the first symptom of stem borer damage, and is related to yield loss only under severe infestation. Stem tunneling adversely affects the quantity and quality of fodder, but is poorly correlated with reduction in grain yield under many situations. Peduncle damage could be critical if there are high velocity winds that result in peduncle breakage. Deadheart formation is the most important criterion for differentiating degrees of resistance, and is directly related to loss in grain yield. The following observations are recorded to evaluate for resistance to stem borer.

Leaf feeding. The extent of leaf feeding is recorded 2 weeks after artificial infestation, and 4 to 5 weeks after crop emergence under natural infestation. The total number of plants, number of plants showing leaf-feeding symptoms, and the leaf-feeding score on a 1 to 9 scale (1 = ≤10% leaf area damaged, 2 = 11-20%, 3 = 21-30%, 4 = 31-40%, 5 = 41-50%, 6 = 51-60%, 7 = 61-70%, 8 = 71-80%, and 9 = >80% leaf area damaged) are recorded.

Deadhearts. The number of plants with deadhearts is recorded 3 weeks after artificial infestation, and 4 to 6 weeks after crop emergence under natural infestation. The total number of plants, number of plants showing borer deadhearts, and the visual score (1 to 9 scale) as described for leaf feeding score (1 = ≤10% plants with deadhearts, and 9 = >80% plants with deadhearts) are recorded.

Chaffy panicles. At crop harvest, the number of partial and completely chaffy panicles, number of broken panicles, the visual score (1 to 9 scale) for chaffy/broken panicles (1 = ≤10% chaffy panicles, and 9 = >80% chaffy panicles), and 100-grain mass are recorded.

Recovery resistance. The number of plants with tillers and the number of tillers with productive panicles are recorded. Recovery resistance is evaluated on a 1 to 9 scale (1 = >80% plants with 2 or 3 uniform and productive tillers, 2 = 71-80% plants with 2 or 3 uniform and productive tillers, 3 = 61-70% plants with 2 or 3 uniform and productive tillers, 4 = 51-60% plants with 2 or 3 uniform and productive tillers, 5 = 41-50% plants with 1 or 2 productive tillers, 6 = 31-40% plants with 1 or 2 productive tillers, 7 = 21-30% plants with 1 or 2 productive tillers, 8 = 11-20% plants with 1 or 2 productive tillers, and 9 = <10% plants with 1 or 2 productive tillers).

Stem tunneling. At maturity, length of stalk and peduncle of five plants is recorded at random in each plot. The stem and peduncle tunneling are measured separately and expressed as percentages of stem length and peduncle length, respectively.

Sorghum Midge

Biology and nature of damage

The sorghum midge, *S. sorghicola* is one of the most damaging pests of grain sorghum. It is widely distributed in Asia, Africa, Americas, Mediterranean Europe, and Australia. The larvae feed on the developing grain, resulting in production of chaffy spikelets. Females lay eggs in panicles at flowering during the morning hours. The damaged panicles present a blasted appearance (Fig. 3a). Midge damaged spikelets have a pupal case attached to the tip of the glumes or have a small exit hole of the midge parasite on the upper glume. Adults emerge between 0600 and 1100 h. Mating takes place within one hour after emergence. Generally, the males emerge one hour earlier than the females, and hover around the spikelets where the females are about to emerge. The males die after mating while the females proceed in search of sorghum panicles at flowering for oviposition. Females lay 30 to 100 eggs singly in the spikelets at anthesis during the morning hours, and die by the afternoon. Eggs hatch within 1 to 4 days. The larvae suck the sap from the developing ovaries and complete the development in 7 to 12 days. Larvae pupate inside the glumes, and the pupal period lasts for 3 to 8 days. Adults live for 4 to 48 h. The population builds up 2 to 3 months after the onset of monsoon rains, and maximum density occurs during September to October. A small proportion of the larvae enter diapause in the spikelets in each generation, which may last as long as 3 to 4 years. The larval diapause is terminated by warm and humid weather (25 to 30°C, and >65% RH).

It is difficult to identify stable sources of resistance against the sorghum midge because of: (1) variation in flowering of sorghum cultivars in relation to midge abundance; (2) day-to-day variation in midge populations; (3) competition with other insects such as head bugs; (4) parasitization and predation by natural enemies; and (5) sensitivity of midge flies to temperature and RH. A large proportion of lines selected as less susceptible under natural conditions comprise of early- and late-flowering escapes. Hence, genotypes rated as resistant in one season often are susceptible in the following seasons or at other locations. Techniques to screen for midge resistance have been described by Jotwani (1978), Page (1979), Sharma (1985), and Sharma et al. (1988a, 1988b, 1992).

Resistance-screening techniques

Field screening techniques (multi-choice conditions)

Hot-spots. Hot-spot locations are useful to screen large numbers of germplasm lines for resistance to sorghum midge. Hot-spot locations for sorghum midge are Dharwad, Bhavanisagar, and Pantnagar in India, Sotuba in Mali, Farako Ba in Burkina Faso, Alupe in Kenya, and Kano in Nigeria. Midge infestations are also high at several locations in Australia, USA, and Latin America.

Sowing date. To screen the test material for resistance to sorghum midge under natural conditions, it is necessary to determine the appropriate time for sowing at different locations. The periods of maximum midge density are determined through fortnightly sowings of a susceptible cultivar. Sowing dates are adjusted so that the flowering of the test material coincides with greatest insect density. At

ICRISAT, Patancheru, maximum midge damage has been observed in the crop planted during the 3rd week of July. The peak in midge density occurs during October. A second but smaller peak has been observed during March in the post-rainy season crop planted in mid-December.

Infester row technique. Midge abundance can be increased through infester rows and spreading sorghum panicles containing diapausing midge larvae in the infester rows (Sharma et al. 1988a) (Fig. 3b). Infester rows of susceptible cultivars CSH 1 and CSH 5 (1:1 mixture) are sown 20 days before sowing the test material. Alternatively, early-flowering (40 to 45 days) susceptible lines (IS 802, IS 13249, and IS 24439) can be sown along with the test material. Four infester rows of the susceptible cultivar are planted after every 16 rows of the test material. Midge-infested chaffy panicles containing diapausing midge larvae are collected at the end of the cropping season, and stored in gunny bags or in bins under dry conditions until the next season. The panicles are moistened for 10 to 15 days to stimulate the termination of larval diapause. Midge-infested panicles containing diapausing midge larvae are spread at the flag leaf stage of the infester rows. Adults emerging from the diapausing larvae serve as a starter infestation in the infester rows to supplement the natural population. The sorghum midge population multiplies for 1 to 2 generations on the infester rows before infesting the test material. This technique increases the midge damage 3 to 5 times. Infester rows alone are also effective in increasing midge infestation.

Sprinkler irrigation. High RH is important for adult emergence, oviposition, and subsequent damage. Overhead sprinkler irrigation is used to increase RH in midge-screening trials during the dry season. Sprinkler irrigation is carried out daily between 1500 and 1600 h from panicle emergence to the grain-filling stage of the crop. Sprinkler irrigation between 1500 and 1600 h does not affect the oviposition by midge females because peak midge activity and oviposition occur between 0730 and 1100 h. Midge damage increases significantly with the use of sprinkler irrigation.

Selective use of insecticides to control other insects. Head bug *C. angustatus* and the midge parasitoid *Tetrastichus diplosidis* limit midge abundance in resistance-screening trials. Head bugs damage the sorghum panicles from emergence to hard-dough stage and compete for food with sorghum midge. They also prey on the ovipositing midge females at flowering, while *T. diplosidis* is an efficient parasite of sorghum midge at some locations. Less persistent and contact insecticides such as carbaryl and endosulfan are sprayed to control head bugs at complete anthesis to milk stage (Sharma and Leuschner 1987). The sorghum midge larvae feeding inside the glumes are not affected by the contact insecticides sprayed after flowering.

Split sowings and grouping the material according to maturity and height. The test material is grouped according to maturity (early, medium, and late) and height (dwarf, medium, and tall) for proper comparisons, avoiding shading effect from tall genotypes. The test material is sown twice at 15-day intervals to minimize the chances of escape from midge damage. Late-flowering genotypes in the 1st planting and early-flowering genotypes in the 2nd planting are exposed to high midge infestations, and this increases the efficiency of selection for midge resistance. Maintaining low planting densities also increases midge infestation as midge damage has been observed to be greater at lower planting densities than at high planting densities (80,000 plants ha⁻¹ as against 120,000 plants ha⁻¹).

No-choice headcage technique

Caging midge flies with sorghum panicles permits screening of the test material under uniform insect pressure. A headcage technique has been developed at ICRISAT, Patancheru. It consists of a cylindrical wire frame made of 1.5-mm diameter galvanized iron (GI) wire. The loop attached to the

top ring rests around the tip of the panicle, and the extension of the vertical bars at the lower ring are tied around the peduncle with a piece of GI wire or electric wiring clips (Fig. 3c). Sorghum panicles at 25 to 50% anthesis stage are selected. Spikelets with dried-up anthers at the top and immature ones at the bottom of the panicle are removed so that only the spikelets at anthesis are exposed to the midge flies for oviposition. The wire-framed cage is placed around the sorghum panicle and covered with a blue cloth bag (20 cm wide and 40 cm long). The cloth bag at the top has an extension (5 cm in diameter and 10 cm long) to release the midges inside the cage. Twenty adult female midges are collected in a plastic bottle (200 ml aspirator) between 0800 and 1100 h from flowering sorghum panicles (only female midges visit the flowering sorghum panicles and these are collected for infestation). Forty midges are released into each cage, and the operation is repeated the next day. About 5 to 10 panicles in each genotype are infested, depending upon the stage of material and the resources available. Midge damage decreases as the time of collection and release advances from 0830 to 1230 h. The cages are examined 5 to 7 days after infestation and any other insects such as head bugs, panicle-feeding caterpillars, and predatory spiders are removed from inside the cage. The cages are removed 15 days after infestation. Midge damage is evaluated and the panicle is covered with a muslin cloth bag. The headcage technique is quite simple, easy to operate, and can be used on a fairly large scale to confirm the field resistance of selected genotypes. Changing weather conditions influence midge activity and can affect midge damage under the headcage. In general, it is a thorough test for use in resistance screening, and is particularly useful in identifying stable and durable resistance.

Damage evaluation for resistance screening

Feeding by the midge larva inside the glumes leads to sterile or chaffy spikelets (Fig. 3d). However, the symptoms of natural sterility and extensive grain damage by sucking insects are superficially similar to the damage caused by sorghum midge. The midge-infested panicles have either small white pupal cases attached to the tip of damaged spikelets or have small parasite exit holes in the glumes. Genotypes flowering on different dates should be tagged with different colored labels or marked with paint along with the panicles of resistant and susceptible checks for proper comparison. Selection for resistance should be based in relation to the reaction of resistant and susceptible checks flowering at the same time.

Chaffy spikelets. The most appropriate criterion to evaluate sorghum lines for midge resistance is chaffy spikelets. Five panicles in each genotype are tagged at half-anthesis stage. Midge damage is recorded in 250 spikelets at 15 days after flowering or at maturity. Five primary branches each from the top, middle, and bottom portions of each panicle are collected. The samples from all the 5 tagged panicles in a genotype are bulked, then the secondary branches are removed from the primary branches, and the sample is mixed thoroughly. The secondary branches are picked up at random and the number of chaffy spikelets in a sample of 250 spikelets is counted. In samples collected at the milk stage, the chaffy spikelets are squeezed between the thumb and first finger or with forceps, and the number of spikelets producing a red ooze (this indicates the presence of midge larva) is recorded. Chaffy spikelets with early-instar larvae at times may not produce a red ooze. The number of chaffy or midge-damaged spikelets is expressed as percentage of the total number of spikelets examined.

Visual damage rating. At crop maturity, midge damage is evaluated on a 1 to 9 scale, where 1 = $\leq 10\%$, 2 = 11-20%, 3 = 21-30%, 4 = 31-40%, 5 = 41-50%, 6 = 51-60%, 7 = 61-70%, 8 = 71-80%, and 9 = $> 81\%$ midge-damaged spikelets.



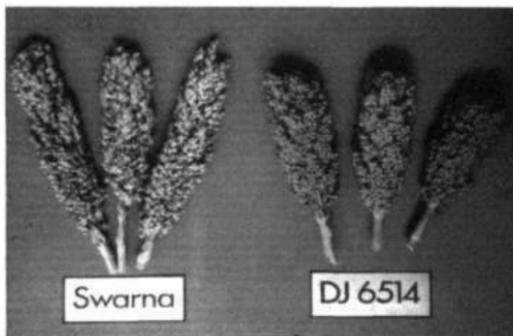
a. Sorghum midge damage



b. Infester row technique



c. No-choice cage technique



d. Susceptible (left) and resistant (right) genotypes

Figure 3. Screening for resistance to sorghum midge *Stenodiplosis sorghicola*.



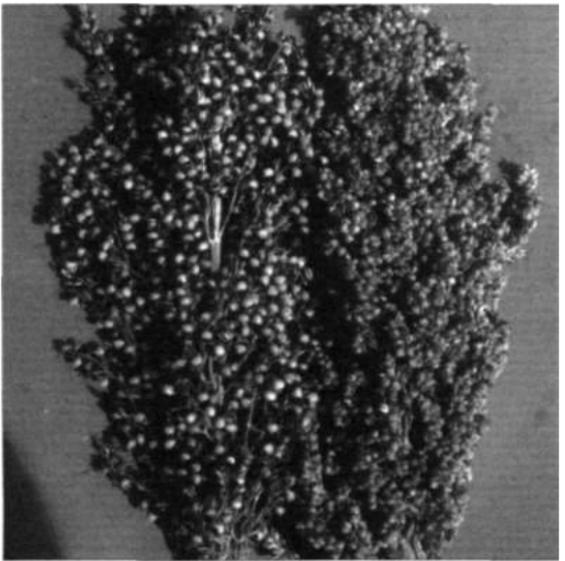
a. Head bug damage



b. Infester row technique



c. No-choice headcage technique



d. CSM 388 (resistant) (left) and S 35 (susceptible) (right)

Figure 4. Screening for resistance to sorghum head bug *Calocoris angustatus*.

Grain yield. Grain yield of the test genotypes is recorded at harvest. The test material can also be maintained under infested and non-infested conditions by using cloth bags or sprayed with appropriate insecticides at flowering to control the sorghum midge in the protected plots. All panicles from the middle row(s) are harvested at maturity and panicle mass and grain mass are recorded. The loss in grain yield in the infested plots or panicles is expressed as percentage of the grain yield in non-infested plots or panicles.

Head Bugs

Biology and nature of damage

The head bugs, *C. angustatus* in India and *E. oldi* in West and Central Africa, are serious pests of grain sorghum. The nymphs and adults suck the sap from the developing grain. The damage starts as soon as the panicle emerges from the boot leaf. High levels of head bug damage lead to tanning and shriveling of the grain (Fig. 4a). Head bug damage leads to both qualitative and quantitative losses in grain yield. Head bug damage spoils the grain quality, and renders the food unfit for human consumption. Such grain also shows poor seed germination. Head bug damage also increases the severity of grain molds. Head bug females lay eggs inside the spikelets from panicle emergence to post-anthesis. A head bug (*C. angustatus*) female lays 150 to 200 eggs, and the eggs hatch in 5 to 7 days. Nymphal development is completed in 15 to 17 days. Nymphs feed on milk and soft-dough grains, and result in tanning and shriveling of the grain. Head bug infestations are high during August to September in the rainy season. During the off-season, the bugs feed on fodder sorghum. Techniques to screen for resistance to head bugs have been discussed by Sharma and Lopez (1992a, 1992b) and Sharma et al. (1992).

Resistance-screening techniques

Field screening

Screening for head bug resistance can be carried out under field conditions during periods of maximum bug density. Screening for head bug resistance under field conditions is influenced by: (1) variation in flowering; (2) fluctuations in bug density; and (3) the effect of weather conditions on the bug population buildup and damage. Early- and late-flowering cultivars normally escape head bug damage, while those flowering in mid-season are exposed to very high bug infestation. The following techniques can be used to increase the screening efficiency for head bug resistance under field conditions.

Hot-spots. ICR1SAT (Patancheru), Bhavanisagar, Kovilpatti, Coimbatore, Palem, and Dharwad in India; Kamboise in Burkina Faso; Sotuba and Samanko in Mali; and Bagauda and Samaru in Nigeria are the hot-spot locations to screen for resistance to head bugs. Head bug density is very high during September to October, and therefore, the test material should be planted in first week of July for effective screening.

Sowing date. The sowing dates are adjusted such that flowering of the test material coincides with maximum head bug density. The periods of maximum head bug abundance are determined by undertaking sowing at 2-week intervals. Maximum bug numbers at ICRISAT, Patancheru have been recorded during September, and a second but smaller peak has been recorded during March. Crops sown during the 2nd week of July suffer maximum head bug damage. At Bhavanisagar, the peak in head

bug density occurs during May to June, and the optimum time to sow the test material for resistance screening is during the 2nd fortnight of February.

Infester-row technique. Infester rows of susceptible cultivars are sown 20 days earlier than the test material. Alternatively, early-flowering (40 to 45 days) sorghum (IS 802, IS 13249, and IS 24439) is sown as infester rows along with the test material (Fig. 4b). Four rows of a susceptible cultivar are sown after every 16 rows of the test material. Head bugs are collected from other fields and spread in the infester rows at panicle emergence to augment the bug density. The test material is sown in two sets, at an interval of 10 to 15 days to reduce the chances of escape in the early- and late-flowering lines. For better results, the test material is grouped according to maturity and height. The sowing date of each maturity group can also be suitably adjusted so that flowering occurs during peak activity period of the head bugs.

No-choice headcage technique

To overcome the problem of variation in flowering among the test cultivars and fluctuations in insect abundance, the headcage technique developed for sorghum midge has been found to be useful to screen for resistance to head bugs as well (Fig. 4c). This technique also permits to monitor the increase in head bug population in the infested panicles under no-choice conditions in relation to different infestation levels, and stages of panicle development. Five to ten panicles at the top-anthesis stage are selected in each plot or genotype, and the headcage is tied around the sorghum panicle and covered with a white muslin cloth bag. Bugs are collected in muslin cloth bags from sorghum panicles at the milk stage, and the adult males and females are separated. Males are smaller and darker in color than the females. Ten head bug pairs are collected in a 200-ml plastic bottle aspirator and released inside the cage. The infested panicles are examined after 1 week and panicle-feeding caterpillars or predatory spiders, if any, are removed. The muslin cloth bag along with the bugs is removed 20 days after infestation. The bugs are killed with ethyl acetate or benzene (2 ml bag⁻¹), or the bags are kept in a freezer for 30 min. The total number of bugs in each cage is counted. The panicles are evaluated at maturity for head bug damage as described below.

Damage evaluation for resistance screening

Head bugs suck the sap from the developing sorghum ovary causing shriveling and tanning of the grains (Fig. 4d). Some grains may also remain underdeveloped. Damage symptoms are normally evident on some or all the grains. Head bug damage is generally high inside the panicle. In some cases, a portion of the panicle may be more damaged than the rest, and some grains may be normal, while others show damage symptoms. Head bug damage can be evaluated by the following criteria.

Head bug counts. Five panicles are tagged at random in each genotype at the half-anthesis stage. The panicles are sampled for head bugs at 20 days after flowering or infestation in a polyethylene or muslin cloth bag containing a cotton swab soaked in 2 ml of ethyl acetate or benzene to kill the bugs. The total number of adults and nymphs is counted.

Grain damage rating. Head bug damage is evaluated at maturity on a 1 to 9 scale (1 = all grains fully developed with a few feeding punctures, 2 = grain fully developed and with feeding punctures, 3 = grains slightly tanned or brown, 4 = most grains with feeding punctures and a few slightly shriveled, 5 = grains slightly shriveled and brown, 6 = grains more than 50% shriveled and tanned, 7 = most of the grains highly shriveled and dark brown, 8 = grain highly shriveled and slightly visible

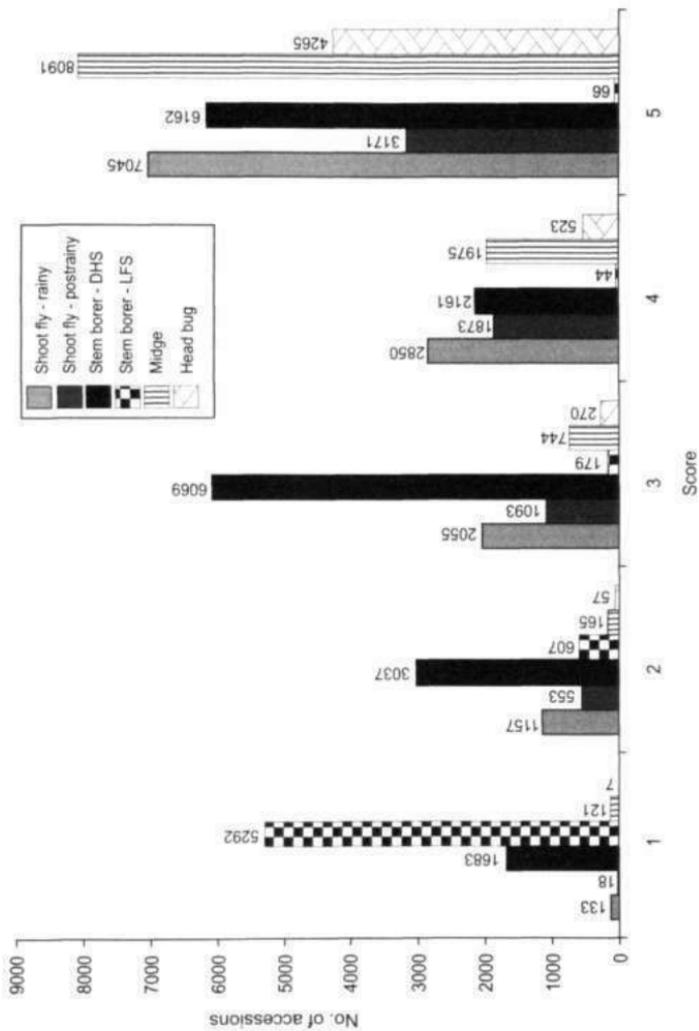


Figure 5. Reaction of sorghum germplasm accessions for resistance to insect pests. (Note: Score 1 = highly resistant, 2 = resistant, 3 = moderately resistant, 4 = susceptible, and 5 = highly susceptible; DHS = Deadheart score; LFS = Leaf feeding score.)

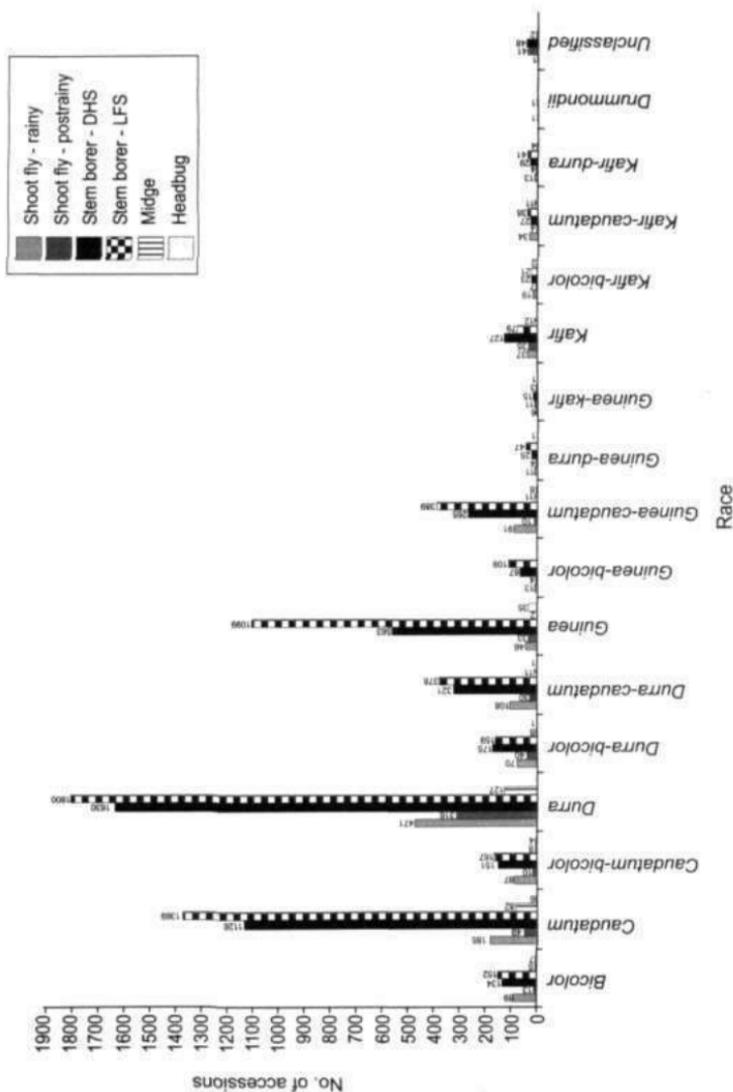


Figure 6. Taxonomic distribution of sorghum germplasm accessions showing resistance to different insect pests. (Note: DHS = Deadheart score; LFS = Leaf feeding score.)

outside the glumes, and 9 = most of the grains highly shriveled and almost invisible outside the glumes).

Grain yield. All panicles from the middle row(s) of each plot or genotype are harvested at maturity. The panicle mass and grain mass in each plot or genotype are recorded. Plots or panicles of lines being tested can also be maintained under infested and non-infested conditions by using cloth bags to exclude the head bugs. Measuring grain yield and grain quality parameters under insecticide protected and unprotected conditions can also be used as a measure of genotypic resistance to head bugs. The loss in grain yield in infested plots or panicles is expressed as a percentage of the grain yield in protected plots or panicles.

Grain mass and floaters. A sample of 1,000 grains is taken at random from each replication or panicle. The moisture content (24 h at 37°C) is equilibrated, and the grain mass is recorded. Sodium nitrate solution of a specific density of 1.31 is prepared in a beaker (Hallgren and Murty 1983). The 1,000-grain sample is placed in the beaker containing sodium nitrate solution. The number of grains floating on the surface is counted and the value is expressed as a percentage of the total number of grains.

Germination test. About 100 grains are taken at random from each replication or panicle and placed between the folds of a water-soaked filter paper in a petri dish. The petri dishes are kept in an incubator at $27 \pm 1^\circ\text{C}$ or at room temperature in the laboratory. The percentage of grains with radical and plumule emergence is recorded after 72 h. Data on grain hardness, 1,000-grain mass, percentage floaters, and percentage germination should be recorded only when the researcher intends to collect more data for in-depth studies on head bug resistance.

Evaluation of Sorghum Germplasm Accessions for Resistance to Insect Pests

Damage evaluation

Of the 36,700 germplasm accessions assembled at ICRISAT, 16694 accessions were evaluated for resistance to sorghum shoot fly, 19116 accessions for resistance to spotted stem borer, 11096 for resistance to sorghum midge, and 5122 accessions for resistance to head bug (Appendix 1). Each genotype was assigned a resistance score, based on insect damage in a test entry in relation to the reaction of resistant and susceptible checks in a particular season/trial. The germplasm accessions were categorized as: (1) highly resistant, (2) resistant, (3) moderately resistant, (4) susceptible, and (5) highly susceptible.

For shoot fly and stem borer, lines showing deadheart percentage equivalent to or less than the resistant check (R) were rated as 1 (highly resistant), entries with deadheart percentage equivalent to $R + X$ were rated as 2 (resistant), $R + 2X$ as 3 (moderately resistant), $R + 3X$ as 4 (susceptible), and $R + 4X$ as 5 (highly susceptible) [$X = (A - B)/4$, where $A =$ deadhearts (%) in the susceptible check or most susceptible line, and $B =$ deadhearts (%) in the resistant check or least susceptible line in the trial]. Leaf feeding scores for stem borer damage or visual damage rating scores for sorghum midge and head bugs recorded on a 1 to 9 scale (as explained under resistance-screening techniques) were converted into 5 categories as follows: (1) 0 to 1 = highly resistant; (2) 2 to 3 = resistant; (3) 4 to 5 = moderately resistant; (4) 6 to 7 = susceptible; and (5) 8 to 9 = highly susceptible. Based on the reaction of test material in different seasons and locations, an average score was entered in Appendix 1.

Table 1. Sources of resistance to sorghum shoot fly *Atherigona soccata* identified at ICRISAT, Patancheru, India.

Genotype	Plant height (cm)	Days to 50% flowering	Deadhearts (%)
IS 923	325	75	42
IS 1034	315	73	27
IS 1096	265	66	37
IS 2122	305	80	33
IS 2146	280	80	23
IS 2195	260	75	44
IS 2205	300	89	33
IS 2265	430	112	43
IS 2269	270	69	20
IS 2291	255	79	18
IS 2309	285	89	34
IS 2312	290	75	26
IS 2394	265	71	42
IS 4646	450	98	32
IS 4663	295	73	38
IS 4664	300	82	31
IS 5210	315	75	38
IS 5470	310	77	32
IS 5480	290	82	17
IS 5484	305	70	28
IS 5511	390	98	26
IS 5538	365	98	29
IS 5566	310	87	46
IS 5604	355	86	38
IS 5613	325	80	27
IS 5622	350	87	38
IS 5636	305	71	29
IS 5648	270	69	28
IS 6566	300	81	39
IS 18366	305	72	20
IS 18368	300	67	47
IS 18369	305	72	24
IS 18371	305	69	37
IS 22114	370	84	37
IS 22121	380	73	19
IS 22144	350	74	29
IS 22145	350	73	39
IS 22148	345	79	34
IS 22149	390	89	28
IS 22196	300	70	31
IS 18551 (Resistant)	330	71	28
CSH 1 (Susceptible)	155	58	72

Table 2. Sources of resistance to spotted stem borer *Chilo partellus* identified at ICRISAT, Patancheru, India.

Genotype	Plant height (cm)	Days to 50% flowering	Deadhearts (%)	
			Artificial infestation	Natural infestation
IS 923	325	75	11	
IS 1044	375	93	3	23
IS 1057	340	71	37	31
IS 1082	260	82	16	25
IS 1096	265	66	7	30
IS 1104	315	73	16	25
IS 2122	305	80	5	12
IS 2123	300	80	15	14
IS 2195	260	75	14	12
IS 2263	305	80	13	24
IS 2265	430	112	16	18
IS 2269	270	69	28	22
IS 2291	255	79	17	35
IS 2312	290	75	11	10
IS 2375	180	53	17	23
IS 2376	180	61	8	10
IS 3962	400	100	1	14
IS 4546	295	79	14	34
IS 4637	290	66	22	39
IS 4646	450	98	22	24
IS 4663	295	73	17	19
IS 4756	345	82	4	13
IS 4757	275	71	16	14
IS 4776	325	84	7	21
IS 4995	420	108	2	21
IS 5072	285	89	5	16
IS 5210	315	75	23	40
IS 5268	300	91	8	26
IS 5469	295	71	13	14
IS 5470	310	77	6	12
IS 5480	290	82	6	11
IS 5484	305	70	8	16
IS 5490	290	67	1	7
IS 5511	390	98	46	17
IS 5571	370	96	10	14
IS 5579	360	82	3	23
IS 5585	295	66	17	26
IS 5604	355	86	25	24
IS 5613	325	80	8	17
IS 5619	360	73	30	14
IS 5648	270	69	8	17
IS 5658	335	89	9	11
IS 6566	300	81	11	18
IS 7224	465	125	4	23
IS 8549	280	131	8	21

continued

Table 2. continued.

Genotype	Plant height (cm)	Days to 50% flowering	Deadhearts (%)	
			Artificial infestation	Natural infestation
IS 8811	240	68	36	29
IS 12308	180	50	5	24
IS 13100	240	58	11	20
IS 17742	320	89	16	29
IS 17745	390	98	7	22
IS 17948	340	88	9	14
IS 18551	330	71	8	24
IS 18573	400	87	10	13
IS 18577	400	89	6	14
IS 18578	395	89	24	25
IS 18579	290	75	10	9
IS 18581	330	135	8	10
IS 18584	310	72	18	17
IS 18585	305	72	20	10
IS 18662	230	64	20	28
IS 18677	210	58	33	32
IS 22039	340	71	9	26
IS 22091	305	70	43	26
IS 22113	365	77	18	36
IS 22114	370	84	14	29
IS 22121	380	73	20	28
IS 22129	380	92	13	17
IS 22144	350	74	21	22
IS 22148	345	79	17	14
IS 22196	300	70	24	17
IS 23962	390	50	8	32
IS 2205 (Resistant)	300	89	15	19
ICSV 1 (Susceptible)	155	58	62	70

Table 3. Sources of resistance to sorghum midge *Stenodiplosis sorghicola* identified at ICRISAT, Patancheru, India.

Genotype	Plant height (cm)	Days to 50% flowering	Damage rating ¹	Midge damage (%)
IS 2687	245	83	5.1	44.6
IS 3461	385	71	3.8	26.9
IS 7005	300	75	2.4	18.0
IS 8100	360	123	-	28.7
IS 8196	260	85	5.7	43.3
IS 8198	250	85	5.1	39.0
IS 8204	255	88	4.4	35.4
IS 8577	225	90	5.1	42.5
IS 8671	185	75	4.0	16.0
IS 8721	270	93	0.0	45.0
IS 8751	390	60	2.8	22.0
IS 8884	275	112	3.5	22.0

continued

Table 3. *continued.*

Genotype	Plant height (cm)	Days to 50% flowering	Damage rating ¹	Midge damage (%)
IS 8887	290	112	3.2	27.2
IS 8891	320	109	3.7	27.4
IS 8918	290	111	2.0	18.0
IS 8922	225	88	5.2	45.5
IS 8946	235	88	4.2	37.9
IS 8988	295	77	4.1	37.9
IS 9045	250	88	6.1	49.0
IS 9107	300	86	3.9	41.0
IS 9807	370	75	2.6	26.0
IS 10712	195	78	3.0	31.0
IS 15107	260	84	4.1	37.5
IS 18563	240	74	4.9	29.4
IS 18695	75	65	3.6	32.7
IS 18696	130	61	3.2	28.2
IS 18698	315	70	2.8	23.0
IS 18733	160	61	-	28.0
IS 19474	365	76	1.9	24.0
IS 19476	370	72	3.4	28.4
IS 21006	390	130	6.3	51.5
IS 21031	440	128	5.4	42.3
IS 21871	90	71	1.4	46.0
IS 21879	100	70	4.3	31.6
IS 21881	90	68	4.3	34.6
IS 21883	110	69	4.0	27.0
IS 21883-1	115	61	-	54.0
IS 22806	330	71	3.2	26.9
IS 26789	230	69	3.2	23.0
IS 27103	195	71	1.6	17.0
IS 31626	340	90	4.8	43.4
IS 31635	300	89	5.1	43.3
IS 31636	300	89	3.9	38.0
ICSV 197 (Resistant)	278	80	1.4	18.0
ICSV 745 (Resistant)	215	71	2.5	22.0
ICSV 88032 (Resistant)	201	61	2.1	12.0
DJ 6514 (Resistant)	230	71	1.8	20.0
TAM 2566 (Resistant)	85	64	3.3	17.0
AF 28 (Resistant)	320	71	1.0	18.0
Swarna (Susceptible)	155	61	8.0	60.4
SE			±0.8	±8.5

1. Scored on 1 to 9 rating scale, where 1 = ≤10% midge damage, and 9 = >80% midge damage.

Table 4. Sources of resistance to sorghum head bug *Calocoris angustatus* identified at ICRISAT, Patancheru, India.

Genotype	Plant height (cm)	Days to 50% flowering	Damage rating ¹ (natural infestation)	Grain damage rating ² (10 pairs panicle ¹)
IS 8064	380	68	3.1 ± 0.50	-
IS 14108	218	54	3.4 ± 0.63	5.0
IS 14317	308	74	4.3 ± 0.41	6.5
IS 14334	245	65	4.3 ± 0.34	-
IS 14380	290	65	4.3 ± 0.70	-
IS 16357	214	68	4.0 ± 0.55	5.8
IS 19455	267	71	4.3 ± 0.39	6.5
IS 19945	310	83	3.1 ± 0.68	-
IS 19948	305	76	4.1 ± 0.63	5.8
IS 19949	285	81	3.2 ± 0.64	5.2
IS 19950	329	78	3.8 ± 0.54	5.0
IS 19951	370	82	4.5 ± 0.36	-
IS 19955	410	82	4.1 ± 0.61	-
IS 19957	308	78	3.2 ± 0.54	4.0
IS 20024	320	82	4.3 ± 0.52	-
IS 20059	348	72	3.8 ± 0.54	5.9
IS 20068	329	73	3.4 ± 0.50	5.6
IS 20664	300	77	5.0 ± 0.36	6.7
IS 20740	255	75	4.1 ± 0.54	6.8
IS 21443	268	72	4.3 ± 0.41	7.0
IS 21444	258	71	4.3 ± 0.50	5.9
IS 21485	390	83	5.2 ± 0.45	-
IS 21574	384	75	4.5 ± 0.52	6.5
IS 22284	252	88	5.0 ± 0.31	6.1
IS 23627	390	84	4.3 ± 0.45	-
IS 23748	287	73	3.1 ± 0.45	-
IS 25069	350	71	4.7 ± 0.88	-
IS 25098	310	73	3.8 ± 0.48	-
IS 25760	296	72	4.0 ± 0.58	4.7
IS 27329	326	74	3.6 ± 1.42	5.0
IS 27452	332	85	4.0 ± 1.58	4.5
IS 27477	332	82	3.4 ± 0.90	3.8
IS 17610	425	110	3.8 ± 0.59	2.7
IS 17618	392	110	4.0 ± 0.68	5.0
IS 17645 (Resistant)	425	110	3.1 ± 0.45	-
CSH 1 (Susceptible)	120	66	7.4 ± 0.31	9.0
CSH 5 (Susceptible)	165	74	8.3 ± 0.28	9.0
CSH 9 (Susceptible)	129	76	7.2 ± 0.55	9.0
SE	±11.9	±1.9		±0.30

1. Based on 7 seasons and scored on 1 to 9 scale, where 1 = grains with a few feeding punctures and no apparent shriveling of the grains, and 9 = grains showing extensive feeding and >80% shriveling, and slightly visible outside the glumes.

2. Panicles infested with 10 pairs of head bugs at the pre-anthesis stage under no-choice headcage conditions.

Screening for resistance to sorghum shoot fly was carried out at ICRISAT, Patancheru, both during the rainy and postrainy seasons. Since the reaction of the test entries varied considerably between the rainy and postrainy seasons, the two data sets were analyzed separately, and have been entered as such in Appendix 1. Screening for resistance to the spotted stem borer was carried out under natural infestation at Hisar, Haryana. Genotypes showing less susceptibility to the stem borer damage under natural infestation were evaluated for 2 to 3 seasons under artificial infestation at ICRISAT, Patancheru. For sorghum midge, the accessions were screened under natural infestation at ICRISAT (Patancheru), Dharwad, and Bhavanisagar. Accessions showing resistance to sorghum midge under natural infestation were evaluated under no-choice headcage technique at ICRISAT, Patancheru for 2 to 3 seasons. Screening for resistance to head bugs was carried out under natural infestation at ICRISAT (Patancheru) and at Bhavanisagar. Accessions showing less susceptibility to head bugs under natural infestation were screened for resistance for 2 to 3 seasons using the no-choice headcage technique.

Identification of stable sources of resistance to insect pests in sorghum

Genotypes showing less susceptibility to the target insect pests in the initial screening nurseries were subjected to rigorous testing in the multilocational and international insect pest nurseries, and under no-choice cage screening tests. Lines showing resistance to the target insect pests across seasons and locations were identified as the donor parents for use in sorghum improvement programs, and are listed in Tables 1 to 4. Forty lines have been identified as resistant to sorghum shoot fly (Table 1), of which IS 1054, IS 1071, IS 2394, IS 5484, IS 18368, IS 2123, IS 2195, IS 4664, and IS 18551 have shown stable resistance to shoot fly damage. Seventy-one lines have been identified as resistant to spotted stem borer (Table 2), of which IS 2205, IS 1044, IS 5470, IS 5604, IS 8320, and IS 1853 are stable across seasons and locations. Of the 50 lines identified as resistant to sorghum midge, DJ 6514, TAM 2566, AF 28, IS 10712, IS 8891, and IS 7005 are stable and diverse sources of resistance (Table 3). Thirty-five lines have been identified as resistant to head bugs, of which IS 17610, IS 17618, IS 17645, IS 20740, and IS 20664 are highly resistant to this pest (Table 4). Accessions showing high and stable resistance can be used in sorghum programs to develop cultivars with resistance to the target pests.

Frequency distribution of sorghum germplasm accessions for susceptibility to insect pests

For sorghum shoot fly, 133 accessions showed high levels (damage rating 1) of resistance in the rainy season, and 18 accessions in the postrainy season (Fig. 5), while 1,157 accessions in the rainy season, and 553 accessions in the postrainy season were categorized as resistant (score 2). A large proportion of accessions showed either a susceptible (2,850) or highly susceptible (7,045) reaction. Of the 19,112 accessions evaluated for deadheart induction by the spotted stem borer, 4720 accessions (1683 had score 1, and 3,037 had a damage rating of 2) showed low incidence of deadheart symptoms, while 6,162 accessions showed high susceptibility. A large number of accessions (5,292) also showed low levels of leaf feeding (score <2). Of the 11,066 accessions screened for resistance to sorghum midge, 121 showed highly resistant reaction, and 165 showed resistant reaction, while 8,091 accessions were graded as highly susceptible. For head bug, only 7 accessions showed a highly resistant reaction, while 57 accessions showed resistant reaction, and 4,265 accessions were graded as highly susceptible.

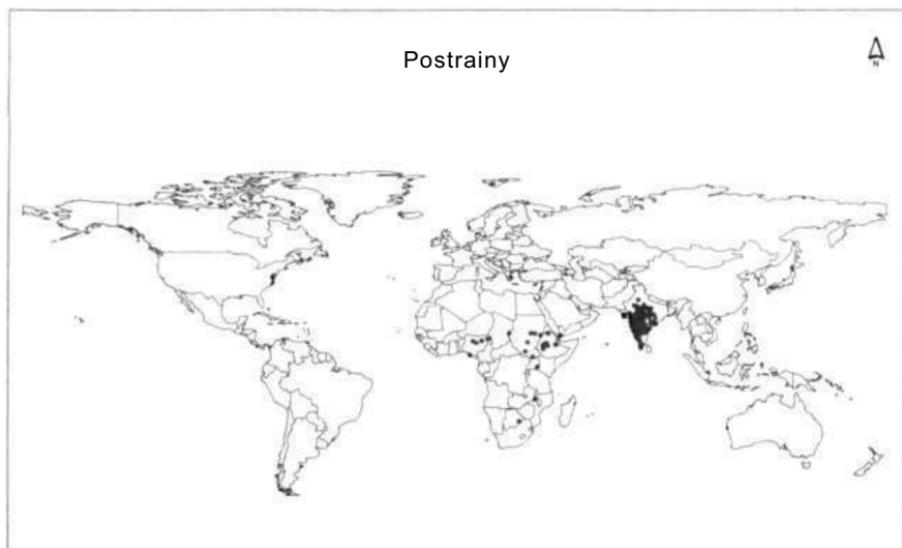
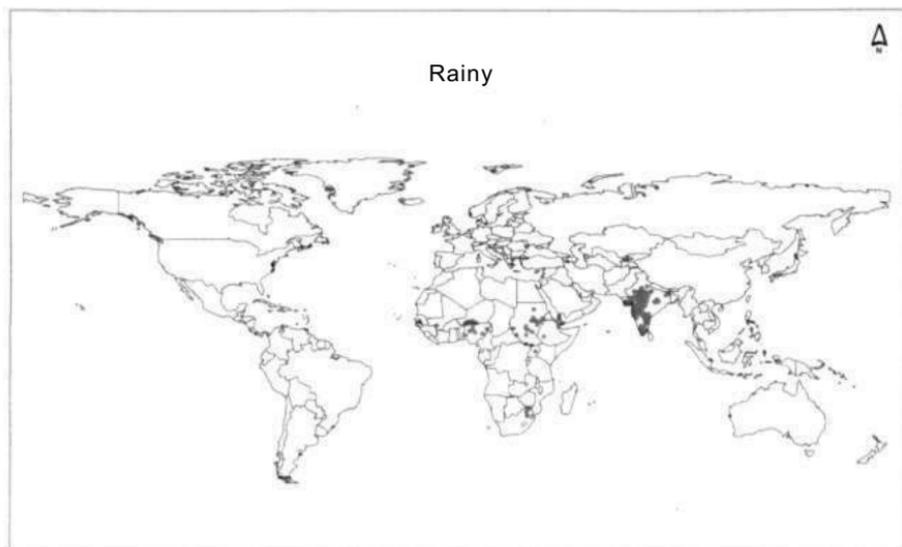


Figure 7. Geographic distribution of sorghum germplasm accessions showing resistance to shoot fly in rainy and postrainy seasons.

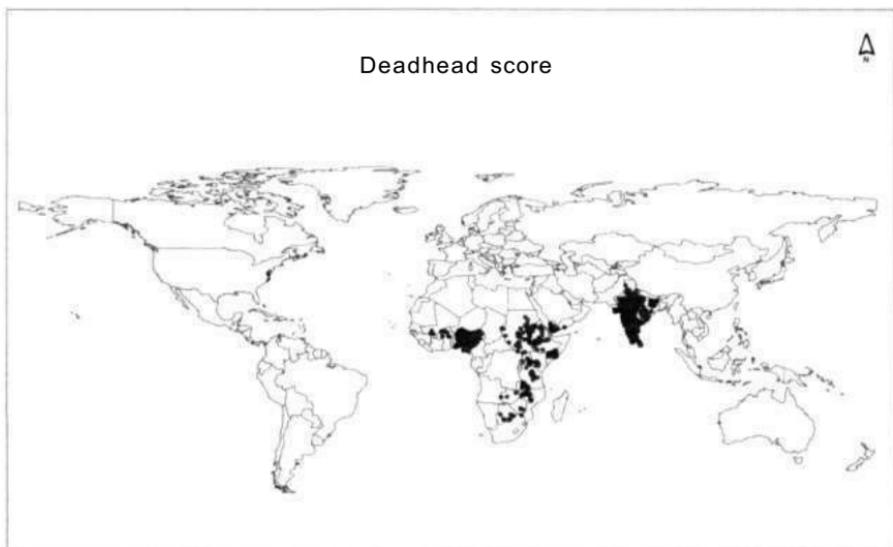


Figure 8. Geographic distribution of sorghum germplasm accessions showing resistance to spotted stem borer.

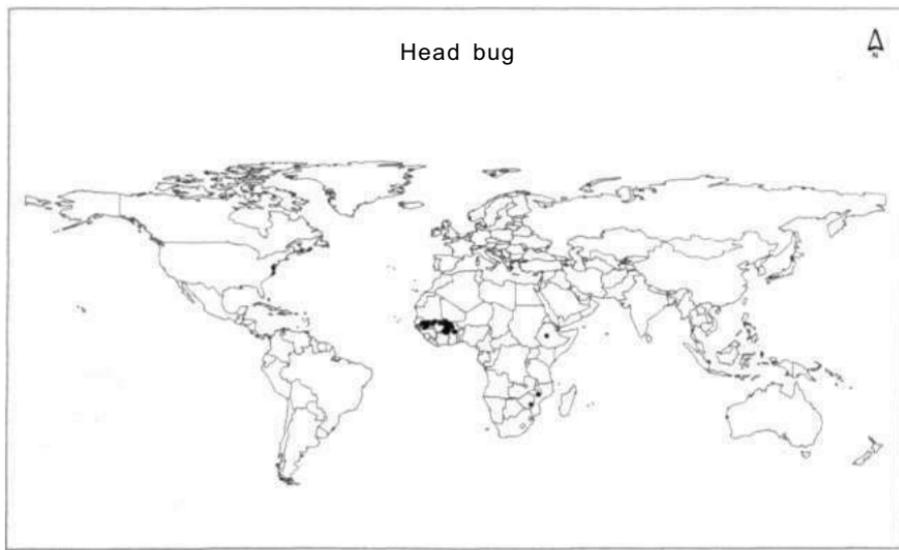
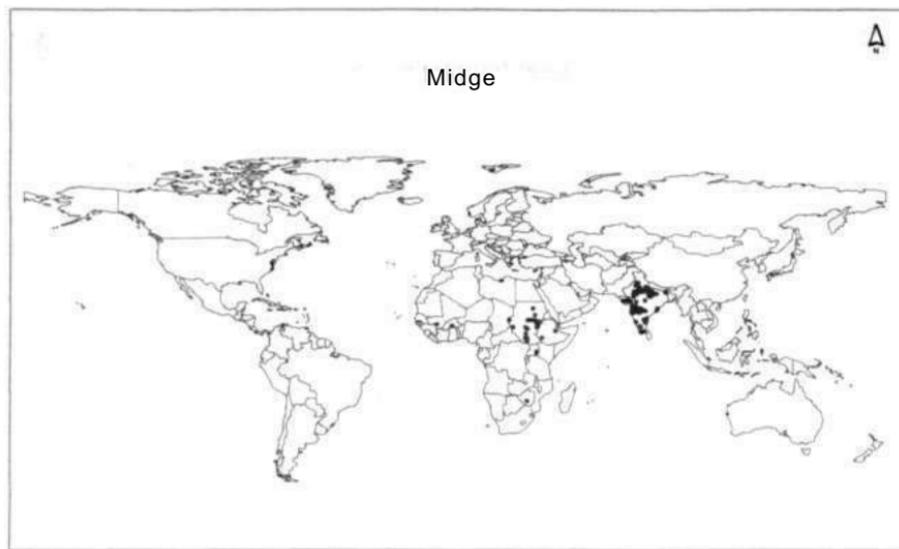


Figure 9. Geographic distribution of sorghum germplasm accessions showing resistance to sorghum midge and head bug.

Taxonomic distribution of sorghum germplasm accessions showing resistance to insect pests

Of the 1290 accessions showing highly resistant or resistant reaction to the shoot fly in the rainy season, most of the accessions (471) belonged to the race *Durra*, followed by *Caudatum* (185), *Durra-caudatum* (108), *Guinea-caudatum* (91), *Bicolor* (89), *Caudatum-bicolor* (87), *Durra-bicolor* (79), *Guinea* (46), *Kafir* (37), *Kafir-caudatum* (34), *Guinea-bicolor* (13), *Kafir-durra* (13), *Guinea-durra* (11), and *Guinea-kafir* (6) (Fig. 6). One accession was unclassified, while no accession belonged to *Drummondii*. A similar trend was observed in the distribution of accessions showing resistance to shoot fly in the postrainy season. In the postrainy season, most of the shoot fly resistant accessions belonged to *Durra* (310), and 30 to 49 accessions each were in *Caudatum*, *Durra-bicolor*, *Durra-caudatum*, *Guinea*, and *Kafir*.

Accessions showing low deadheart incidence due to spotted stem borer belonged to *Durra* (1,630), followed by *Caudatum* (1,126), *Guinea* (563), *Durra-caudatum* (321), *Guinea-caudatum* (265), *Caudatum-bicolor* (151), *Bicolor* (134), and *Kafir* (127). There were 15 to 67 accessions in *Guinea-bicolor*, *Guinea-durra*, *Guinea-kafir*, *Kafir-bicolor*, *Kafir-caudatum*, and *Kafir-durra* groups. One accession belonged to *Drummondii*, while 41 were not classified. A similar trend was also observed for leaf feeding symptoms. Most of the accessions with low leaf feeding belonged to *Durra*, *Caudatum*, *Guinea*, and *Guinea-caudatum*.

Of the 286 accessions showing resistance to sorghum midge, 127 accessions belonged to *Durra*, 82 to *Caudatum*, 12 to *Kafir*, 11 each to *Durra-caudatum*, *Guinea-caudatum*, and *Kafir-caudatum*, 8 each to *Caudatum-bicolor* and *Durra-bicolor*, 5 to *Bicolor*, 4 to *Kafir-durra*, 2 to *Guinea*, and 1 each to *Guinea-durra*, *Guinea-kafir*, and *Drummondii*. Two accessions were not classified.

For sorghum head bug, 64 accessions were placed in the resistant or highly resistant category, of which 35 belonged to *Guinea*, 8 to *Guinea-caudatum*, 7 to *Bicolor*, 6 to *Caudatum*, 4 to *Caudatum bicolor*, 2 to *Kafir-bicolor*, and 1 each to *Durra-bicolor* and *Durra-caudatum*.

Overall, most of the accessions showing resistance to shoot fly and spotted stem borer belonged to *Durra*, *Caudatum*, and *Durra-caudatum* taxonomic groups. For sorghum midge, most of the resistance sources belonged to *Durra* and *Caudatum* groups, while accessions belonging to *Guinea* group showed high levels of resistance to head bugs.

Geographic distribution of sorghum germplasm accessions showing resistance to insect pests

Most of the accessions showing resistance to shoot fly originated from India, followed by Sudan, and Nigeria. A few accessions also originated from Yemen, Ethiopia, South Africa, Uganda, Niger, Mali, and Senegal (Fig. 7). For the postrainy season, most of the accessions originated from India, followed by Ethiopia, Sudan, and Nigeria. Accessions showing resistance to spotted stem borer largely originated from India, Sudan, Ethiopia, Kenya, Somalia, Yemen, Uganda, Tanzania, Zimbabwe, Zambia, Botswana, South Africa, Mali, and Burkina Faso (Fig. 8). Sorghum midge resistant sources originated from India and Sudan. A few accessions also originated from Ethiopia, Uganda, Zimbabwe, Burkina Faso, and Mali (Fig. 9). Resistance to head bugs was observed in accessions originating from Mali, Burkina Faso, Nigeria, and Senegal (Fig. 9). A few accessions also originated from Ethiopia, Mozambique, and Zimbabwe.

References

- Borad, P.K., and Mittal, V.P. 1983.** Assessment of losses caused by pest complex to sorghum hybrid CSH-5. Pages 271-278 in Crop losses due to insect pests (Krishnamurthy Rao, B.H., and Murthy, K.S.R.K., eds.). Special Issue of the Indian Journal of Entomology. Rajendranagar, Hyderabad, Andhra Pradesh, India: Entomological Society of India.
- CIMMYT (Centro Internacional de Mejoramiento de Maiz y Trigo). 1977.** CIMMYT review 1977. El Batán, Mexico: CIMMYT. 99 pp.
- Dang, K., Mohini Anand, and Jotwani, M.G. 1970.** A simple improved diet for artificial rearing of sorghum stem borer, *Chilo partellus* (Swinhoe). Indian Journal of Entomology 32:130-133.
- Hallgren, L., and Murty, D.S. 1983. A screening test for grain hardness in sorghum employing density grading in sodium nitrate solution. Journal of Science 1:265-274.
- ICRISAT (International Crops Research Institute for the Semi-Arid Tropics). 1992.** Medium-term plan. Patancheru 502 324, Andhra Pradesh, India: ICRISAT pp. vii-viii. (Limited distribution.)
- Jotwani, M.G. 1978.** Investigations on insect pests of sorghum and millets with special reference to host plant resistance. Final Technical Report (1972-77). Research Bulletin of the Division of Entomology. New Delhi, India: Indian Agricultural Research Institute. 114 pp.
- Jotwani, M.G., Young, W.R., and Teetes, G.L. 1980.** Elements of integrated control of sorghum pests. FAO Plant Production and Protection Paper. Rome, Italy: Food and Agriculture Organization of the United Nations. 159 pp.
- Leuschner, K., and Sharma, H.C. 1983.** Assessment of losses caused by sorghum panicle pests. Pages 201-212 in Crop losses due to insect pests (Krishnamurthy Rao, B.H., and Murthy, K.S.R.K., eds.). Special Issue of Indian Journal of Entomology. Rajendranagar, Hyderabad, Andhra Pradesh, India: Entomological Society of India.
- Page, F.D. 1979.** Resistance to sorghum midge (*Contarinia sorghicola* Coquillett) in grain sorghum. Australian Journal of Experimental Agriculture and Animal Husbandry 19:97-101.
- Sharma, H.C. 1985.** Screening for sorghum midge resistance and resistance mechanisms. Pages 317-335 in Proceedings of the International Sorghum Entomology Workshop, 15-21 July 1984, Texas A&M University, College Station, Texas, USA. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics.
- Sharma, H.C. 1993.** Host-plant resistance to insects in sorghum and its role in integrated pest management. Crop Protection 12:11-34.
- Sharma, H.C., and Leuschner, K. 1987.** Chemical control of sorghum head bugs (Hemiptera: Miridae). Crop Protection 6:334-340.
- Sharma, H.C., and Lopez, V.F. 1992a.** Screening for plant resistance to sorghum head bug, *Calocoris angustatus* Leth. Insect Science and its Application 13:315-325.
- Sharma, H.C., and Lopez, V.F. 1992b.** Genotypic resistance in sorghum to head bug, *Calocoris angustatus*. Euphytica 58:193-200.
- Sharma, H.C., Taneja, S.L., Leuschner, K., and Nwanze, K.F. 1992.** Techniques to screen sorghum for resistance to insects. Information Bulletin no. 32. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics. 48 pp.
- Sharma, H.C., Vidyasagar, P., and Leuschner, K. 1988a.** Field screening sorghum for resistance to sorghum midge (Cecidomyiidae: Diptera). Journal of Economic Entomology 81:327-334.
- Sharma, H.C., Vidyasagar, P., and Leuschner, K. 1988b.** No-choice cage technique to screen for resistance to sorghum midge (Cecidomyiidae: Diptera). Journal of Economic Entomology 81:415-422.

Siddiqui, K.H., Sarup, P., Panwar, V.P.S., and Marwaha, K.K. 1977. Evaluation of base ingredients to formulate artificial diets for mass rearing of *Chilo partellus* (Swinhoe). *Journal of Entomological Research* 1:117-131.

Soto, P.E. 1972. Mass rearing of sorghum shoot fly and screening for host plant resistance under greenhouse conditions. Pages 137-138 in *Proceedings of the International Symposium on Control of Sorghum Shoot Fly* (Jotwani, M.G., and Young, W.R., eds.). New Delhi, India: Oxford and IBH.

Taneja, S.L., and Leuschner, K. 1985a. Resistance screening and mechanisms of resistance in sorghum to shoot fly. Pages 115-129 in *Proceedings of the International Sorghum Entomology Workshop*, 15-21 July 1984, Texas A&M University, College Station, Texas, USA. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics.

Taneja, S.L., and Leuschner, K. 1985b. Methods of rearing, infestation, and evaluation for *Chilo partellus* resistance in sorghum. Pages 178-185 in *Proceedings of the International Sorghum Entomology Workshop*, 15-21 July 1984, Texas A&M University, College Station, Texas, USA. Patancheru 502 324, Andhra Pradesh, India: International Crops Research Institute for the Semi-Arid Tropics.

Appendix 1

Reaction of sorghum germplasm accessions for resistance to sorghum shoot fly, spotted stem borer, sorghum midge, and head bugs (germplasm accessions have been rated on 1 to 5 scale, where, 1 = highly resistant, 2 = resistant, 3 = moderately susceptible, 4 = susceptible, and 5 = highly susceptible. Numbers in parentheses indicate the number of seasons an accession has been evaluated for resistance).

Note: SF = Shoot fly; SB = Stem borer; MD = Midge; HB = Head bug; R = Rainy; PR = Postrainy; DHS = Deadheart score; LFS = Leaf feeding score; and DR = Damage rating.

IS No	Alternate accession identifier	Alternate accession	Source country	SF					IS No	Alternate accession identifier	Source country	SF						
				R	PR	LFS	LFS	DR				R	PR	LFS	LFS	DR	DR	
1	Miser	Mexico	USA	213	-	491	-	513	011	27	Hogan	USA	213	411	327	-	445	511
2	Black spanish	Mexico	USA	213	-	311	-	513	28	Hogan	USA	423	443	347	-	311	511	
4	Cafe de cardenas	Mexico	USA	413	-	311	-	513	29	Hogan 6647-11-7-1	USA	413	-	513	-	311	511	
5	Aracola 27	Mexico	USA	413	113	231	-	513	30	Hogan 6647-11-1-2	USA	213	-	513	-	311	511	
11	White Italian	Mexico	USA	513	-	413	-	413	31	Hogan 6647-21-1-3	USA	213	-	513	-	311	511	
12	Aracola 775-284-157	USA	USA	313	-	311	-	423	32	Hogan 6647-23-1-1	USA	313	-	513	-	311	511	
13	Aracola 77-153	USA	USA	213	443	313	243	523	33	Hogan 6647-30-7-3	USA	343	-	513	-	311	511	
15	Toucana emargin	USA	USA	213	-	311	-	413	35	Hogan 7704-2-3	USA	213	-	313	-	311	511	
20	Black spanish turah	USA	USA	413	-	323	343	323	36	Hogan 7706-5-1	USA	213	313	-	343	511		
21	Black spanish turah	USA	USA	413	-	423	313	323	37	Hogan 7706-7-4	USA	213	-	323	-	343	511	
23	White Italian turah	USA	USA	413	-	413	-	423	38	Hogan 7710-4-1-2-1	USA	113	-	311	-	-	-	
24	Aracola 100	USA	USA	413	-	311	-	513	39	Hogan 7710-2-0	USA	113	-	313	-	513	511	
25	Illinois turah	USA	USA	413	-	-	-	513	41	White Hogan dw	USA	213	-	343	-	-	-	
26	Pickler 123 Turah	USA	USA	313	-	-	-	513	42	SA 5113-3-4-1	USA	313	-	343	-	311	511	
27	Pickler 123 Turah	USA	USA	313	213	443	-	513	43	Power Hogan	USA	313	-	343	-	311	511	
30	Australian turah	USA	USA	513	443	313	-	513	44	DD Early Hogan	USA	313	-	313	-	311	511	
31	Australian turah	USA	USA	513	443	313	-	513	45	DD Early Hogan	USA	313	-	313	-	311	511	
32	Russell dw no 1	USA	USA	213	-	323	-	513	46	DD Early Hogan	USA	343	-	313	-	443	511	
34	Standard	USA	USA	443	-	313	-	413	47	DB White hogan	USA	213	313	323	-	-	511	
35	Black spanish	USA	USA	213	-	313	-	513	48	DB Hmb Hogan	USA	313	-	413	-	413	511	
36	CI 900	USA	USA	313	-	-	-	513	49	DB Hogan	USA	423	413	413	-	413	511	
50	Palto dw early	USA	USA	313	-	-	-	513	50	DB Hogan	USA	423	-	313	-	323	511	
51	Starbarger	USA	USA	313	-	413	-	513	51	Wh C Kafir 5547	USA	323	413	323	423	511		
52	Suppen dw	USA	USA	213	-	-	-	423	52	C Kafir 5625 5785	USA	423	313	323	443	511		
54	Unknown	Unknown	USA	213	-	323	-	423	53	C Kafir 5742	USA	423	313	323	443	511		
51	Red/Ink dw	USA	USA	313	-	513	-	513	54	C Kafir 5765	Unknown	USA	323	313	313	-	413	511
52	Café white durra	USA	USA	213	-	-	-	313	55	Kafir 5875-6-7	USA	213	-	343	-	443	511	
53	Brown durra	USA	USA	313	513	-	513	513	56	C Wa Kafir 5975	USA	343	-	423	-	423	511	
54	Brown durra	USA	USA	313	-	213	523	423	57	C Kafir Wa 5895	USA	213	423	313	-	323	511	
55	Dura	USA	USA	323	413	413	-	423	58	C Kafir Wa 5899	USA	313	423	323	423	413		
57	Dwarf hogan	USA	USA	313	-	313	-	413	59	C Kafir Wa 5811	USA	213	-	413	-	311	413	
60	White durra	Russian C. U.S.S.R.	USA	213	313	313	523	523	60	Kafir 5877-29-3	USA	343	323	323	423	511		
61	Red durra	South Africa	USA	313	-	-	413	413	61	Kafir 5906-7-1	USA	413	-	323	-	413	511	
62	Dura	USA	USA	313	-	-	-	513	62	C Kafir 5925	USA	413	-	323	-	413	511	
63	Unknown	Unknown	USA	313	-	-	-	513	63	C Kafir 5925	USA	313	313	313	-	413	511	
64	DD Petaria	Mexico	USA	413	-	-	-	513	64	C Kafir 6025	USA	213	-	323	-	423	511	
72	DD white Petaria	Mexico	USA	423	413	313	-	513	65	C Kafir 6025	USA	213	-	-	-	413	511	
73	DD Petaria	Mexico	USA	423	413	313	-	513	66	C Kafir 6025	USA	423	413	313	-	313	511	
74	Petaria	Mexico	USA	213	-	313	-	413	67	DD Wh seed 6045	USA	423	213	413	-	313	-	
75	Sour Petaria	Mexico	USA	513	-	-	313	313	68	DD Wh seed 6045	USA	423	413	413	-	423	511	
76	Sour Petaria	Mexico	USA	213	-	313	-	413	69	C Kafir 60	Mexico	423	313	413	-	423	511	
77	Petaria	Mexico	USA	313	413	513	-	513	70	Imperial Kafir	USA	313	-	313	-	313	511	
78	Petaria	Mexico	USA	313	513	513	313	513	71	Kafir black Kafir	USA	313	-	-	-	323	511	
79	Red Petaria	Mexico	USA	213	213	413	-	513	72	Imperial black Kafir	USA	423	213	313	-	423	511	
80	DB white Petaria	Mexico	USA	213	-	313	-	413	73	C Kafir 6025-3	USA	423	313	323	-	423	511	
81	PI 16709	Egypt	USA	313	-	413	-	513	74	C Kafir Wa 5765-6	USA	313	-	313	-	313	511	
82	YE Petaria	Egypt	USA	213	-	313	-	513	75	Dawn Kafir	USA	423	413	313	-	523	511	
83	SA 7529-Y6-14-1-L	Egypt	USA	313	213	413	413	513	76	Oh Kafir	USA	213	313	313	413	423	511	
84	SA 7529-Y6-14-1-L	Egypt	USA	313	313	343	423	513	77	Jaxon Kafir	USA	313	423	413	-	423	511	
85	DD wh yw Petaria	USA	USA	413	-	413	423	513	78	Black hull Kafir	USA	213	413	413	-	323	511	
86	Petaria	USA	USA	213	-	413	423	513	79	Santa G Kafir	USA	423	313	313	-	423	511	
88	DD wh Petaria	USA	USA	213	-	413	423	513	80	Texas bb Kafir	USA	423	313	313	-	423	511	
89	Unknown	Unknown	USA	313	-	313	-	513	81	Western bb Kafir	USA	423	413	423	-	423	511	
97	Unknown	Unknown	USA	313	-	413	-	423	82	Shagan Kafir	USA	213	313	323	-	423	511	
98	Unknown	Unknown	USA	313	-	413	-	413	83	Shagan Kafir	USA	313	-	323	-	423	511	
99	Unknown	Unknown	USA	313	-	413	-	413	84	BB Kafir 153	USA	313	-	323	-	423	511	
101	Unknown	USA	USA	313	-	413	413	413	85	Sod bb Kafir, CI 71	USA	313	413	313	-	513	511	
102	Early hogan Petaria	USA	USA	213	-	313	-	513	86	Sod bb Kafir II	USA	313	413	313	-	513	511	
103	Early hogan Petaria	USA	USA	213	313	413	413	513	87	Dawn Kafir mutation	USA	313	-	413	-	513	-	
104	Thoma - early Hogan	USA	USA	213	-	313	-	413	88	Santa G Kafir	USA	313	413	413	-	513	511	
105	Hl Hogan	USA	USA	213	-	413	423	513	89	Imperial Kafir mutation	USA	313	513	313	-	513	511	
106	Early Hogan	USA	USA	423	213	213	423	513	90	Somax Kafir	USA	423	-	313	-	513	511	
107	Early Hogan	USA	USA	313	-	413	-	423	91	Red Kafir	USA	213	313	-	-	513	-	
108	Hogan	USA	USA	423	313	313	443	513	92	Red Kafir	USA	313	413	323	-	513	-	
109	Arizona hogan	USA	USA	423	313	313	443	513	93	Hydon Kafir	USA	213	413	313	-	513	-	
110	Hogan	USA	USA	213	313	313	443	513	94	Peori Kafir	USA	313	-	323	-	413	-	
111	Hogan	USA	USA	213	313	313	443	513	95	Rice Kafir	USA	413	-	323	-	413	-	
112	Carthage hogan	USA	USA	213	-	313	-	413	96	Kate Kafir II mutation	USA	413	-	343	-	413	511	
113	Thoma	USA	USA	313	413	313	213	443	97	White Kafir	USA	313	-	313	-	413	511	
114	DD Early Hogan	USA	USA	213	-	313	-	513	98	Waxy Kafir	USA	413	-	313	-	413	511	
115	DD Early Hogan	USA	USA	423	413	213	443	513	99	Pink Kafir	USA	313	-	323	-	423	511	
116	DD Early Hogan	Unknown	USA	423	413	443	413	513	100	Pink Kafir	USA	313	-	323	-	423	511	
117	DD Early Hogan	USA	USA	213	-	313	-	413	101	Pink Kafir	USA	313	413	-	423	511		
118	DD Early Hogan	USA	USA	213	-	313	-	413	102	Front selection 8909	USA	313	-	313	-	413	511	
119	C. umbone hogan	USA	USA	313	-	313	-	423	103	Nodan Kafir	USA	413	-	313	-	423	511	
120	Early hogan	USA	USA	313	413	313	443	513	104	Red Kafir mutation	USA	413	-	413	-	413	511	
121	BB 1471 Hogan	USA	USA	213	-	313	-	413	105	Red Kafir (bb var)	USA	313	-	313	-	413	511	
122	DD Early Hogan	USA	USA	213	-	313	-	413	106	Red Kafir	USA	313	313	-	313	511		
123	White Hogan	USA	USA															

IS No	Alternative accession identifier	Source country	SP						HS No	Alternative accession identifier	Source country	SR						
			R	FR	SD	ES	DR	DR				R	FR	SD	ES	DR	DR	
211	Combine Kafir	USA	4(2)	3(1)	3(1)	4(2)	5(2)	571	Onion/onion stubble	USA	3(1)	-	3(1)	-	3(1)			
212	Combine Kafir	USA	3(1)	3(1)	3(1)	4(1)	5(2)	571	Wheat milo	USA	3(1)	-	3(1)	-	4(2)	5(2)		
213	Downy Kafir	USA	3(1)	-	3(1)	4(1)	5(2)	571	Onion/onion stubble	USA	3(1)	-	4(1)	-	5(2)	5(2)		
214	Artemis essential Kafir	USA	3(1)	3(1)	3(1)	3(1)	5(1)	571	Onion milo	USA	3(1)	-	4(1)	-	5(1)	5(1)		
215	High land Kafir	USA	3(1)	-	2(4)	-	4(1)	5(4)	380	Susser milo	USA	3(1)	-	-	-	5(1)	5(2)	
216	Lowland Kafir	USA	4(1)	-	3(2)	-	5(2)	5(1)	382	Susser milo	USA	2(1)	4(1)	2(1)	-	5(1)	5(2)	
217	Pink Kafir Ale	USA	4(2)	3(1)	2(2)	-	5(1)	5(1)	383	Milo	USA	4(1)	-	-	-	5(1)	3(1)	
218	Red Kafir	USA	4(1)	3(1)	3(1)	-	4(1)	5(2)	486	Susser milo	USA	3(1)	-	4(2)	-	5(1)	5(1)	
219	Reddish Black Kafir	USA	4(2)	3(1)	3(1)	-	3(1)	5(2)	587	MAT MAY MAX MA4	USA	3(1)	-	3(1)	-	3(1)	3(1)	
220	White lowland Kafir	USA	3(1)	-	3(2)	-	4(3)	5(2)	388	Milo	USA	3(1)	-	2(1)	-	3(1)	5(1)	
221	DD late cluster	USA	4(2)	-	3(2)	-	-	-	390	Unknown	USA	3(1)	4(1)	4(2)	-	5(1)	5(1)	
222	KHansenKafir cluster	USA	2(1)	-	-	-	-	3(1)	4(1)	Red combine	USA	3(1)	-	3(1)	-	3(1)	3(1)	
223	DD late hb Kafir	USA	4(2)	3(1)	3(2)	-	4(2)	5(2)	402	Red combine	USA	4(2)	5(1)	4(1)	-	5(1)	5(1)	
224	C Bb Kafir	USA	4(2)	3(1)	3(2)	-	3(2)	5(2)	406	Cargock combine milo	USA	4(1)	-	3(1)	-	-	3(2)	
225	C Wn Kafir	USA	4(2)	3(1)	3(1)	-	3(2)	5(2)	405	Cargock	USA	4(1)	-	3(1)	-	3(1)	5(2)	
226	C Bb Kafir	USA	4(2)	3(1)	3(1)	-	3(2)	5(2)	406	Red combine	USA	4(1)	4(2)	3(1)	-	3(1)	5(2)	
227	C Bb Kafir	USA	4(2)	3(1)	3(1)	-	4(2)	5(2)	407	Redline 657	USA	4(1)	-	3(1)	-	3(1)	4(2)	
228	C Bb Kafir	USA	2(1)	-	3(2)	-	-	3(1)	408	Redline 78	USA	2(1)	-	3(1)	-	3(1)	5(2)	
229	C Bb Kafir	USA	4(2)	3(1)	3(1)	-	4(1)	5(2)	409	Redline hb	USA	3(1)	-	3(2)	-	3(1)	5(2)	
230	Red Kafir (Texas)	USA	3(1)	-	3(1)	-	3(1)	5(1)	5(1)	Cargock	USA	3(1)	-	3(2)	-	3(1)	5(1)	
232	Texas 54 hybrid	USA	3(1)	2(1)	3(2)	-	4(1)	5(2)	411	Marin 530	USA	3(1)	-	3(2)	-	3(1)	5(1)	
233	Academy group	China	3(1)	3(1)	4(1)	-	4(1)	5(1)	412	Maize common milo	USA	2(1)	-	3(1)	-	3(1)	5(1)	
238	Unknown	Unknown	4(1)	-	4(1)	-	4(1)	5(1)	411	Redline	USA	4(2)	3(1)	3(1)	-	3(1)	5(1)	
240	Kaoliang group	China	3(1)	-	3(1)	-	-	3(1)	414	Cargock	USA	-	5(1)	5(1)	-	3(1)	3(2)	
247	Unknown	Unknown	3(1)	-	3(1)	-	3(1)	5(1)	415	Red combine	USA	3(1)	-	3(2)	-	3(1)	4(3)	
253	Unknown	Unknown	3(1)	2(1)	3(2)	-	3(1)	5(1)	416	Red combine	USA	4(1)	-	3(2)	-	3(1)	5(1)	
256	Unknown	Unknown	-	-	3(1)	-	-	3(1)	417	Red combine	USA	4(1)	4(2)	3(2)	-	3(1)	5(1)	
261	Wb Kaoliang hb w/c	China	3(1)	-	3(2)	-	3(1)	5(1)	418	Red combine	USA	3(1)	-	3(1)	-	3(1)	5(2)	
262	Wb Kaoliang w/c	China	2(1)	2(1)	3(2)	-	3(2)	5(1)	451	SA 34c-2-1-3-1	USA	-	3(1)	4(1)	-	3(1)	5(1)	
263	Kaoliang w/c	China	4(1)	-	3(1)	-	3(1)	5(1)	452	D shallo	USA	4(1)	4(1)	3(1)	-	3(1)	5(1)	
264	Brown kaoliang	China	4(1)	-	4(1)	-	4(1)	5(1)	453	D shallo	USA	4(1)	5(1)	3(2)	-	3(1)	5(1)	
265	Shanen hb Kaoliang	China	3(1)	2(1)	4(2)	-	3(2)	4(4)	454	SA 5772-7	USA	3(1)	-	3(1)	3(2)	-	4(2)	5(1)
266	Wormed hb Kaoliang	China	3(1)	-	3(1)	-	3(4)	5(1)	455	SA 5772-1-4	USA	4(1)	3(1)	3(2)	-	4(1)	5(1)	
267	Madness hb Kaoliang	China	3(1)	-	3(1)	-	3(1)	4(4)	456	SA 6199-1-4	USA	3(1)	3(1)	3(1)	-	3(1)	5(1)	
308	Brown kaoliang	China	2(1)	-	3(1)	-	3(1)	5(1)	457	SA 6300-2-4	USA	3(1)	3(1)	3(2)	-	3(1)	5(1)	
309	Shanen hb Kaoliang	China	2(1)	3(1)	3(2)	-	-	3(1)	458	SA 6099-1-2-1R	USA	3(1)	3(1)	3(2)	-	3(1)	5(1)	
310	Shanen hb Kaoliang	China	2(1)	3(1)	3(2)	-	-	3(1)	459	SA 6099-1-2-1R	USA	3(1)	3(1)	3(2)	-	3(1)	5(1)	
311	White kaoliang	China	2(1)	-	4(1)	-	4(2)	5(1)	460	DET 6099-1-4	USA	4(1)	3(1)	3(2)	-	3(1)	5(1)	
312	Brown hb Kaoliang	China	2(1)	-	4(1)	-	3(1)	5(1)	461	DET 6099-1-2	Unknown	3(1)	3(1)	3(2)	-	3(2)	4(1)	
315	Thick rind kaoliang	China	2(1)	-	3(1)	-	3(1)	5(1)	462	DT Shallo 65-57	USA	3(1)	3(1)	3(2)	-	3(1)	4(1)	
314	Unknown	China	2(1)	-	3(1)	-	4(1)	5(1)	464	DT Shallo 65-57	USA	4(1)	3(1)	3(2)	-	3(1)	4(1)	
315	Unknown	China	4(1)	-	-	-	4(1)	5(1)	464	DT Shallo 65-57	USA	-	3(1)	3(1)	-	4(1)	4(1)	
319	Unknown	China	3(1)	-	3(1)	-	3(1)	5(1)	465	DH1 1-600-1-1	USA	4(1)	4(1)	3(1)	-	3(1)	3(4)	
329	Unknown	China	2(1)	-	4(1)	-	3(1)	5(1)	466	DH1 3-600	USA	3(1)	4(1)	3(1)	-	3(1)	3(1)	
330	Unknown	Unknown	3(1)	3(4)	-	-	3(1)	3(1)	467	DH1 1-600-2-1R	USA	4(1)	-	4(1)	-	3(1)	3(1)	
331	Downy milo	USA	2(1)	-	-	-	2(1)	3(1)	468	DH1 1-600-2-1R	USA	4(1)	4(1)	-	-	4(2)	3(2)	
332	White waxy downy milo	USA	3(1)	-	3(1)	-	3(4)	3(2)	469	DH1 1-600-2-1-3	USA	3(1)	-	3(2)	-	3(1)	3(1)	
333	Wb susser milo	USA	3(1)	-	3(2)	-	-	3(1)	470	Grand Seed 90-2	USA	3(1)	-	3(1)	-	3(1)	3(1)	
336	C Y S milo 5375	USA	3(1)	-	-	-	3(1)	3(1)	471	Grand Seed 90-2	USA	3(1)	3(1)	3(1)	-	3(1)	3(1)	
337	Texas DD Milo	USA	2(1)	-	-	-	3(1)	3(1)	472	Shalla 5378	USA	2(1)	3(1)	3(2)	-	3(1)	4(2)	
338	DD Yel Milo	USA	3(1)	-	4(1)	-	3(1)	3(1)	473	Agron 2650 Shallo	USA	4(1)	3(1)	3(1)	-	3(1)	3(2)	
339	C Wb Milo	USA	3(1)	-	3(1)	-	3(1)	3(1)	474	Pop staphan SA 380	USA	4(1)	3(2)	3(2)	-	3(1)	3(1)	
340	CF hb 10317F the milo	USA	2(1)	-	3(1)	-	3(1)	3(1)	475	Unknown	USA	4(1)	3(1)	3(1)	-	3(2)	3(1)	
341	Unknown	USA	-	3(1)	-	-	-	3(2)	5(1)	RFVY 1-1-2	Mexico	3(1)	-	3(2)	-	3(1)	4(1)	
342	Calby milo	USA	-	3(1)	3(1)	-	3(1)	3(1)	5(2)	R1 VL 1-4-1	Mexico	2(1)	-	3(1)	-	3(1)	3(1)	
343	DD Yel Susser	USA	-	3(1)	3(1)	-	3(1)	3(1)	5(3)	RFVY 2-3-7	Mexico	3(1)	-	3(1)	-	3(1)	3(1)	
344	Downy Yel Milo	USA	-	3(1)	4(1)	-	-	3(1)	3(4)	RFVY 2-3-4	Mexico	4(2)	4(1)	3(2)	-	3(1)	3(1)	
345	Susser	USA	3(1)	-	-	-	3(1)	3(1)	3(5)	RFVY 2-3-6	Mexico	3(2)	3(1)	3(2)	-	3(1)	3(1)	
346	Red yel milo	USA	-	3(1)	3(1)	-	3(1)	3(1)	3(6)	RFVY 2-3-7	Mexico	3(1)	-	3(1)	-	3(1)	3(1)	
347	Red 192	USA	-	3(1)	4(1)	-	3(1)	3(1)	3(7)	RFVY 2-3-8	Mexico	3(1)	-	3(1)	-	3(1)	3(1)	
348	SA 292	USA	3(1)	-	3(1)	-	3(1)	3(4)	3(8)	RFVY 1-4-2	Mexico	3(1)	-	3(2)	-	3(1)	3(4)	
349	SA 292 hb hb hb	USA	3(1)	-	3(2)	-	3(2)	3(2)	3(9)	RFVY 1-4-2	Mexico	3(1)	-	3(1)	-	3(1)	3(1)	
350	Downy yel milo	USA	4(2)	3(1)	3(2)	-	3(4)	3(2)	3(10)	RFVY 5-7-4	Mexico	3(1)	-	3(1)	-	3(1)	3(2)	
351	Downy yel milo	USA	4(2)	3(1)	4(2)	-	3(1)	3(1)	3(11)	RFVY 1-2-2-2	Mexico	3(1)	-	3(1)	-	3(2)	3(2)	
352	Downy yel milo	USA	3(1)	-	3(2)	-	3(1)	3(1)	3(14)	RFVY 2-3-1-3	Mexico	3(1)	-	3(2)	-	3(1)	3(1)	
353	Downy yel milo	USA	3(1)	3(1)	3(1)	-	3(1)	3(1)	3(16)	RFVY 2-4-1-1	Mexico	4(2)	3(1)	-	-	3(1)	-	
354	Texas milo	USA	2(1)	-	-	-	3(2)	3(2)	3(17)	RFVY 2-4-1-2	Mexico	4(2)	3(1)	3(2)	-	4(2)	3(1)	
355	Texas milo	USA	-	3(1)	4(1)	-	3(1)	3(3)	3(18)	RFVY 2-3-1-2	Mexico	3(1)	-	3(1)	-	3(1)	3(1)	
356	Texas milo	USA	-	3(1)	3(4)	-	-	3(1)	3(19)	R1 Y 394-2-1	Mexico	3(1)	3(1)	3(2)	-	3(1)	3(2)	
357	Pinney milo	USA	-	3(1)	4(1)	-	-	3(1)	3(20)	RFVY 394-2-1	Mexico	3(1)	-	3(2)	-	3(1)	3(2)	
358	Red yel Milo	USA	-	3(1)	3(1)	-	-	3(1)	3(21)	R1 Y 397-1-1	Mexico	3(1)	-	3(2)	-	3(1)	3(1)	
359	Chaco hb details	USA	-	3(1)	4(1)	-	-	3(1)	3(22)	RFVY 1426-3-3	Mexico	3(1)	-	4(1)	-	3(1)	4(1)	
360	DD white susser milo	USA	-	3(1)	3(1)	-	3(1)	3(1)	3(23)	RFVY 1426-3-3	Mexico	3(1)	-	3(2)	-	3(1)	4(1)	
361	Combine white milo	USA	-	3(1)	4(1)	-	3(1)	3(1)	3(24)	RFVY 1935-5-5	Mexico	3(2)	3(1)	3(1)	-	3(1)	3(1)	
362	Ey Eb Milo	USA	3(1)	-	3(1)	-	4(2)	3(2)	3(25)	R1 VL 1935-2-1	Mexico	4(2)	3(2)	3(2)	-	3(1)	-	
363	Ey Wb Milo	USA	4(2)	4(1)	3(1)	-	4(2)	3(2)	3(26)	RFVY 1935-2-1	Mexico	3(1)	-	3(1)	-	4(1)	3(2)	
364	Ey Eb Milo	USA	4(2)	3(1)	4(2)	-	4(2)	3(1)	3(27)	RFVY 1935-1-5	Mexico	2(1)	-	3(2)	-	3(1)	3(1)	
365	Ey Wb Milo	USA	3(1)	-	-	-	3(1)	3(1)	3(28)	Wb large grain	USA	3(1)	3(2)	4(1)	-	4(1)	4(1)	
366	DD white milo	USA	4(2)	4(1)	4(1)	-	3(1)	3(1)	3(30)	Kaize acetum yellow	USA	3(1)	-	-	-	3(1)	3(1)	
367	Downy white milo	USA	3(1)	4(1)	3(1)	-	-	3(1)	3(31)	55-4919	USA	4(2)	3(1)	3(1)	-	3(1)	3(2)	
368	Texas hb w/c milo	USA	4(1)	-	3(1)	-	4(2)	3(1)	3(32)	55-4919	USA	3(1)	-	3(2)	-	3(1)	-	
369	White milo	USA	4(2)	3(1)	3(1)	-	4(1)	3(1)	3(33)	55-4940	USA	4(2)	-	3(1)	-	-	3(1)	

IS No	Alternate accession identifier	Source country	R						IS No	Alternate accession identifier	Source country	R					
			R	PR	MS	LPS	DR	DR				R	PR	MS	LPS	DR	DR
534	55-4446	USA	442	343	413	-	343	413	679	Lines	USA	311	-	-	-	-	
535	55-4882	USA	442	343	413	-	343	413	680	Kiver orch	USA	441	-	342	-	-	
537	Unknown	USA	441	-	421	-	341	411	681	Single dip	USA	311	311	311	-	-	
532	Unknown	USA	311	-	311	-	311	411	682	Single dip	USA	211	-	312	-	-	
601	Black Amber 6	USA	511	-	311	-	311	411	683	Alfalfa	USA	311	-	312	-	-	
602	Maine apple Amber	USA	403	-	403	-	311	-	684	Red	USA	311	-	312	-	-	
603	PC #724	USA	311	-	412	-	311	-	685	Honey	USA	421	-	311	-	511	
604	Chines amber	USA	311	-	311	-	411	311	686	Blue	USA	311	-	441	-	511	
605	Chines amber	USA	311	-	441	-	411	511	687	Honey No. 2	USA	311	-	311	-	511	
606	Minnesota amber	USA	411	-	411	-	311	-	688	Honey No. 2	USA	311	-	312	-	511	
607	Minnesota amber	USA	311	-	311	-	311	-	689	Garlic	USA	211	-	311	-	-	
608	Arava amber	USA	311	-	441	-	311	-	690	Greenish red	USA	311	-	311	-	-	
609	Maryo amber	USA	411	-	311	-	311	-	691	Black	USA	311	-	211	-	511	
610	Indian amber	USA	311	-	311	-	311	-	692	Green	Mexico	321	311	411	-	511	
611	Samoa amber	USA	311	-	311	-	311	-	693	Black	Mexico	321	-	311	-	-	
612	Rapeseed 3	USA	411	-	311	-	311	-	694	Sugar dip	Mexico	311	-	411	-	511	
613	Wageningen amber	USA	211	-	311	-	311	311	695	Personal sweet lemon	USA	311	311	312	-	511	
614	Lidgho amber	USA	311	-	311	-	311	-	697	Personal sweet lemon	USA	311	-	421	-	-	
615	Red amber	USA	311	-	311	-	311	-	698	Personal sweet lemon	USA	-	-	111	-	-	
616	Black amber	USA	311	-	311	-	311	-	699	Personal sweet lemon	USA	-	-	111	-	-	
617	Suma	USA	441	-	412	-	311	-	700	Personal sweet lemon	USA	311	-	511	-	-	
618	Bathurst sumac	USA	211	-	-	-	-	-	701	Personal sweet lemon	USA	311	311	421	-	-	
619	Bathurst sumac	USA	311	-	441	-	311	-	702	Personal sweet lemon	USA	311	-	421	-	511	
620	Yellow peachy sumac	USA	211	-	311	-	401	401	703	Sweet lemon	USA	411	-	311	-	511	
621	Medford forest sumac	USA	311	-	311	-	401	401	704	Green	USA	311	-	311	-	511	
622	Early sumac	USA	311	-	311	-	401	401	705	Green	USA	311	-	311	-	511	
623	Sumac	USA	311	-	421	-	311	311	706	Yellow	USA	311	-	311	-	511	
624	Sumac	USA	311	-	421	-	311	311	707	Wageningen orange	USA	311	-	311	-	511	
625	Sumac	USA	311	-	421	-	311	311	710	Wageningen orange	USA	311	-	311	-	511	
626	Sumac	USA	411	-	421	-	311	311	711	Plantes 1st	USA	311	411	311	-	511	
627	Pera	USA	411	-	311	-	311	311	712	Club leaf	USA	411	-	311	-	511	
628	Per 2	USA	311	-	311	-	311	311	713	Sugar dip (okla)	USA	411	421	311	-	511	
629	Tha	USA	412	-	311	-	311	311	714	Res 3rd	USA	311	-	344	-	511	
630	Black Bull	USA	311	-	311	-	311	311	715	African coffee	USA	311	-	311	-	-	
631	Tree apple	USA	311	-	311	-	311	311	716	Browley (mex)	USA	311	311	311	-	511	
632	Hedge	USA	311	-	411	-	311	-	717	Pine	USA	311	-	311	-	511	
633	Hedge	USA	311	-	411	-	311	-	718	Green yellow	USA	311	-	311	-	511	
634	Scarf	USA	411	-	311	-	311	311	719	Sumac seed	USA	311	311	311	-	511	
635	Atlas	USA	411	-	311	-	311	311	720	Sumac 65th	USA	311	-	311	-	511	
636	Star	USA	411	-	311	-	311	311	721	Asha 20th	USA	311	-	311	-	511	
637	Levit	USA	411	-	311	-	311	311	722	Unknown	Unknown	311	-	211	-	511	
638	Came red hull	USA	411	-	311	-	311	311	723	Unknown	Unknown	411	311	311	-	511	
639	Lava	USA	411	-	311	-	311	311	724	Shiloh green 65b	USA	211	-	411	-	511	
640	Levit	USA	311	-	411	-	311	-	725	Shiloh green 65b	USA	311	-	-	-	511	
641	Levit pahies	USA	411	-	311	-	311	311	726	Shiloh green 65b	USA	311	-	411	-	511	
642	Ello stage	USA	311	-	311	-	311	311	727	Shiloh green 65b	USA	211	-	311	-	511	
643	Mt. leap study	USA	211	-	311	-	311	311	728	Mandan 1st Dakota	USA	311	311	311	-	511	
644	Mt. leap study	USA	311	-	311	-	311	311	729	Mandan 1st Dakota	USA	211	-	311	-	511	
645	Early folge	USA	411	-	311	-	311	311	730	MS 142	USA	311	-	311	-	511	
646	Early folge	USA	411	-	311	-	311	311	731	MS 206	USA	311	-	311	-	511	
647	Folger	USA	411	-	311	-	311	311	732	MS 301	USA	311	-	311	-	511	
648	Culler	USA	311	-	311	-	311	311	733	MS 305	USA	311	-	311	-	511	
649	Culler	USA	311	-	311	-	311	311	734	MS 114	USA	311	311	411	-	511	
650	Culler	USA	311	-	311	-	311	311	735	MS 148	USA	411	211	311	-	511	
651	Denson	USA	311	-	311	-	311	311	736	MS 154	USA	311	-	411	-	511	
652	Orange	Unknown	411	-	311	-	311	311	737	MS 4	USA	311	411	311	-	511	
653	Orange	USA	411	-	311	-	311	311	738	MS 4	USA	311	411	311	-	511	
654	Un stage red plum	USA	411	-	311	-	311	311	739	MS 2765-1,2	USA	411	311	411	-	511	
655	Orange	USA	411	-	311	-	311	311	740	SA 7525-1,2	USA	311	311	311	-	511	
656	Isabella orange	USA	411	-	311	-	311	311	741	SA 7525-2,4	USA	411	311	311	-	511	
657	Karava orange	USA	411	-	311	-	311	311	742	SA 7525-3,5	USA	411	311	411	-	511	
658	Colman	USA	411	-	311	-	311	311	743	SA 7525-2,6	USA	311	-	-	-	511	
659	Colman	USA	411	-	311	-	311	311	744	SA 7525-2,7	USA	311	-	311	-	511	
660	Colman	USA	411	-	311	-	311	311	745	SA 7525-2,8	USA	311	-	311	-	511	
661	Colman	USA	411	-	311	-	311	311	746	SA 7525-2,9	USA	311	-	311	-	511	
662	Spading	USA	411	-	311	-	311	311	747	SA 7525-2,9	USA	311	-	311	-	511	
663	Succaline	USA	411	-	311	-	311	311	748	SA 7525-2,9	USA	311	-	311	-	511	
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665	Succaline	USA	411	-	311	-	311	311	750	SA 7525-2,9	USA	311	-	311	-	511	
666	Straght neck	USA	411	-	311	-	311	311	751	SA 7525-2,9	USA	311	-	311	-	511	
667	Straght neck	USA	411	-	311	-	311	311	752	SA 7525-2,9	USA	311	-	311	-	511	
668	Orange	USA	411	-	311	-	311	311	753	SA 7525-2,9	USA	311	-	311	-	511	
669	White African	USA	411	-	311	-	311	311	754	SA 7525-2,9	USA	311	-	311	-	511	
670	White mammoth	USA	311	-	311	-	311	311	755	SA 7525-2,9	USA	311	-	311	-	511	
671	Atlas	USA	311	-	311	-	311	311	756	SA 7525-2,9	USA	311	-	311	-	511	
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675	Platte	USA	411	-	311	-	311	311	760	SA 7525-2,9	USA	311	-	311	-	511	
676	Dwarf ashburn	USA	411	-	311	-	311	311	761	SA 7525-2,9	USA	311	-	311	-	511	
677	Club head early	USA	311	-	311	-	311	311	762	SA 7525-2,9	USA	311	-	311	-	511	
678	Unknown	USA	411	-	311	-	311	311	763	SA 7525-2,9	USA	311	-	311	-	511	

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0064	CI 10-7	India	311	-	324	-	409	-	505	-	1183	NET un kno	Zambia	342	-	-	-	342	-	411	-	-	-
0065	O1 Kamikesh	India	402	312	312	101	311	501	501	1186	Alangata cholan	India	342	-	-	-	342	-	463	-	-	-	
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0069	Khandi	India	211	-	111	111	511	343	-	1193	Waterstone	Zimbabwe	511	-	-	-	-	-	-	-	-	-	
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0079	Mandoli 1-2-1	India	441	343	321	-	511	342	1203	Phakumari	Malawi	211	311	342	411	-	-	-	-	-	-		
0080	Komagan 2-2-1	India	461	341	341	-	511	512	1204	Hung nate	China	211	-	-	-	321	-	-	-	-	-		
0081	WAZ 1-6-2	India	321	313	111	111	511	514	1208	Shangri-La Kumbang	USA	311	311	423	342	311	-	-	-	-	-		
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0084	A 5	India	321	-	311	-	313	342	1211	Ghulistan kabang	China	211	-	342	-	341	211	-	-	-	-		
0085	A 21	India	321	-	311	-	-	341	1212	Yun-shing-ching	China	211	-	342	411	341	-	-	-	-	-		
0086	A 28	India	311	-	311	-	-	341	1213	AS 5238	China	311	-	312	-	341	-	-	-	-	-		
0087	A 31	India	311	-	311	-	-	311	1214	Kanhang	China	311	-	311	-	311	-	-	-	-	-		
0088	Kawanauli	India	311	-	321	-	-	511	1215	Tung shen	China	341	-	311	-	311	-	-	-	-	-		
0089	NY 4	India	311	-	321	-	-	511	1216	Chang peng	China	311	-	311	-	311	-	-	-	-	-		
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0107	Sarah 35-1-Indice	India	211	421	311	-	-	-	1225	Shang	USA	411	-	311	-	311	311	-	-	-	-		
0108	Lilrangam	India	212	-	321	-	313	313	1226	White stria	Russia & CIS	311	411	321	411	311	311	-	-	-	-		
0109	Padar bed rpsuan	India	312	-	311	-	-	-	1229	Pal wung hu hagar	USA	311	-	321	341	-	-	-	-	-	-		
0112	Nihau	India	215	-	321	-	313	313	1230	Trung cholan	India	311	-	311	-	-	-	-	-	-	-		
0113	Banigan	India	311	-	321	-	311	311	1232	Chewrangum	India	211	-	321	311	-	-	-	-	-	-		
0114	Shengar	India	211	-	321	-	311	311	1233	Kwonging	China	311	-	311	-	311	-	-	-	-	-		
0115	Saraya	India	211	441	311	-	462	342	1234	Hull midrib trangu	China	211	-	321	311	-	-	-	-	-	-		
0136	Nauhari	India	411	341	312	111	-	211	1235	Seeh-shan cholan	India	202	-	321	311	-	-	-	-	-	-		
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0139	Qandri 36	India	411	313	322	-	342	342	1240	Palat-palat hokkai	India	211	-	312	-	311	-	-	-	-	-		
0120	Shewari	India	311	341	321	-	-	311	1242	Palat-palat hokkai	India	311	-	311	-	311	-	-	-	-	-		
0121	Kand 2-7-11	India	441	341	311	-	-	513	1243	Trung cholan	India	211	-	321	-	311	-	-	-	-	-		
0122	Kand local	India	513	441	311	-	311	311	1245	Trung cholan	India	311	-	422	-	-	-	-	-	-	-		
0124	Aamke No 2	India	461	311	311	-	341	311	1246	Red mangy mandri	India	311	211	321	111	-	-	-	-	-	-		
0125	PI 248321	India	211	-	321	-	111	311	1247	Red mangy mandri	India	311	-	321	111	-	-	-	-	-	-		
0126	PI 248322	India	312	-	321	-	511	342	1248	Trung cholan	India	311	-	311	111	-	-	-	-	-	-		
0127	A 35	India	311	-	321	-	310	311	1249	Dunatu cholan	India	311	-	321	312	-	-	-	-	-	-		
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0129	PI 248323	India	311	-	311	-	-	-	1251	Seemung wugham	India & CIS	311	-	311	-	311	-	-	-	-	-		
0130	PI 248324	India	311	-	311	-	-	-	1252	Red Amber	South Africa	311	-	311	-	311	-	-	-	-	-		
0131	PI 248327	India	211	-	321	111	-	-	1253	Black Amber	South Africa	311	-	311	-	311	-	-	-	-	-		
0132	Alangata panna jama	India	211	-	311	-	-	-	1255	Bolcus wugham	Zaire	311	-	321	111	-	-	-	-	-	-		
0133	Chokta panna jama	India	312	411	311	-	-	-	1256	Trung cholan	India	311	-	311	-	111	-	-	-	-	-		
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0135	Chokta panna jama	India	312	312	311	111	-	-	1258	Kapu trangu	India	311	-	321	-	411	341	-	-	-	-		
0136	Chokta panna jama	India	462	312	321	111	-	-	1259	Shang-sheng-hung	Myanmar	311	-	312	-	311	-	-	-	-	-		
0137	Chokta panna jama	India	462	311	315	341	-	-	1260	Shang-sheng-hung	Myanmar	311	-	321	211	311	411	311	-	-	-		
0138	Khamu panna jama	India	462	311	321	341	-	-	1261	N T	Gulia	411	-	-	-	311	-	-	-	-	-		
0139	Chokta panna jama	India	441	341	311	-	311	311	1262	Naka mangy	India	211	-	111	111	-	-	-	-	-	-		
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0144	AKP 1 Sonna	India	311	-	321	111	-	-	1268	Mali mabuta	Zambia	311	-	311	-	451	511	-	-	-	-		
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2002	SA 813A [DD]	USA	513						2148	Nafara	Nigeria	511					
2003	SA 813A-2 [DD]	USA	513						2149	Shan	Nigeria	511					
2004	SA 813A-3 [DD]	USA	511						2150	Yan	Nigeria	511					
2005	SA 813A-5 [DD]	USA	511						2151	Yan	Nigeria	511					
2006	SA 813A-7 [DD]	USA	211						2152	Yan	Nigeria	511					
2007	SA 813A-1 [DD]	USA	211						2153	Ukaleke	Nigeria	511					
2010	SA 844B-1 [SP]	USA	411						2154	Gi-dimo	Nigeria	411					
2011	SA 844B-2 [SP]	USA	211						2155	Ilumai-I	Nigeria	511					
2012	SA 852-1	USA	211						2157	Yan macine	Nigeria	511					
2013	SA 852-2	USA	211						2158	Heilo	Nigeria	411					
2014	SA 852-3	USA	211						2159	Jarebichuma	Nigeria	511					
2015	SA 852-4 [SP]	USA	411						2160	Iara Iara	Nigeria	411					
2016	SA 844B-5 [SP]	USA	411						2162	Iara Iara	Nigeria	511					
2017	SA 844B-6 [SP]	USA	411						2163	Kwara white glume	Nigeria	511					
2021	SA 830-1 [D]	USA	513						2164	Nganga Ikwak	Nigeria	511					
2022	SA 830B-2 [D]	USA	513						2165	Nganga	Nigeria	511					
2026	SA 830A-4 [D]	USA	513						2166	Lankwawa	Nigeria	211					
2028	SA 830B-1 [D]	USA	511						2167	Zago	Nigeria	511					
2029	SA 830B-2 [D]	USA	511						2168	Qagabo	Nigeria	411					
2031	SA 849-1 [D]	USA	411						2169	Wankun	Nigeria	211					
2032	SA 830B-1 [D]	USA	511						2170	Ijan dawa	Nigeria	511					
2033	SA 830B-2 [D]	USA	511						2171	Nyir Lankwawa	Nigeria	411					
2034	SA 830B-3 [D]	USA	511						2172	Bankumawa	Nigeria	211					
2035	SA 830B-4 [D]	USA	511						2174	Takwawa sholom	India	411					
2036	SA 844B-6 [SP]	USA	411						2175	Yan macine	India	411					
2037	SA 827B-1 [D]	USA	311						2176	Milidun-I	India	411					
2038	SA 827B-1 [D]	USA	211						2177	K-2-2-badam	India	411					
2039	SA 827B-1 [D]	USA	511						2178	K-V-I-Ian	India	511					
2040	SA 827B-2 [D]	USA	411						2179	K-U-19	India	511					
2041	SA 827B-1 [D]	USA	211						2180	R-N-1	India	511					
2042	SA 829-1 [D]	USA	411						2181	R-N-2	India	511					
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2044	SA 829-1 [D]	USA	411						2183	Yan	India	511					
2045	SA 833A [DD]	USA	411						2184	AS 360	India	411					
2046	SA 833B [D]	USA	411						2185	AS 368-1-1	India	411					
2047	SA 833B-1 [D]	USA	411						2187	AS 367	India	511					
2051	SA 835A-1	USA	411						2188	AS 360	India	511					
2055	SA 835A-1	USA	411						2189	AS 360	India	511					
2057	SA 845B-2 [D]	USA	411						2190	AS 464	India	511					
2058	SA 847B-1 [D]	USA	511						2191	AS 467	India	511					
2059	SA 847B-2 [D]	USA	411						2192	AS 5157	India	211					
2064	SA 847B-2 [D]	USA	411						2193	AS 7441	India	411					
2067	SA 847B-2 [D]	USA	411						2194	AS 827K	India	211					
2074	SA 847B-2 [D]	USA	411						2195	Shmanga	India	411					
2075	SA 847B-2 [D]	USA	411						2196	Bug-jowar	India	411					
2076	SA 847B-2 [D]	USA	411						2197	Kashir (Kashir)	India	411					
2080	Unknown	India	411						2198	Lucal-jowar	India	411					
2089	Unknown	India	411						2199	Lucal-jowar	India	411					
2090	Unknown	India	411						2200	Kashir-jowar	India	411					
2091	Unknown	India	411						2201	Rahu-jowar	India	411					
2091	Unknown	India	411						2202	Lucal-jowar	India	411					
2093	Unknown	India	211						2203	Lucal-jowar	India	411					
2096	Unknown	India	211						2204	Jewant red-jowar	India	511					
2097	Unknown	India	211						2205	Jaguar	India	411					
2098	Unknown	India	211						2206	Kashir-jowar	India	411					
2099	Unknown	India	211						2207	Kashir-jowar	India	411					
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2101	PI 1549A-1	USA	311						2209	Heilo-jowar	India	411					
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2119	PI 1549A-1	USA	311						2227	Heilo-jowar	India	411					
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2134	PI 1549A-1																

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2235	B378	USA	4(2)	1(1)	5(3)	1(1)	1(1)	2319	Lavilla white Q2-3-25	Sudan	5(2)	3(2)	3(1)	2(1)	1(1)
2236	B380	USA	4(1)		2(2)		4(2)	2320	Layson Q2-3-26	Sudan	3(1)		2(2)	1(1)	-
2237	A383	USA	2(2)	4(1)	5(1)	5(1)	5(1)	2321	Aklamite white	Sudan	4(2)	3(1)	3(1)	5(1)	5(1)
2238	B386	USA	4(1)	4(1)	3(1)	3(1)	5(1)	2322	For shamsi Q2-3-28	Sudan	4(2)	2(2)	3(1)	5(1)	4(2)
2239	B367	USA	4(1)		1(1)		1(1)	2323	For shamsi Q2-3-29	Sudan	5(2)	3(1)	5(1)	5(1)	4(2)
2240	SA 524-1-4	USA	4(1)		3(1)		4(2)	2324	Ajira Q2-3-30	Sudan	3(1)		5(1)	5(1)	4(2)
2241	Provenance of pro	Mexico	5(1)	3(1)	3(1)	1(1)	-	2325	Low lodging Q2-3-31	Sudan	3(1)	4(1)	4(2)	3(1)	5(1)
2242	D 140	India	3(0)	2(1)	-	-	-	2326	Mamun Q2-3-33	Sudan	4(1)		4(2)	4(2)	3(1)
2243	PJ 4K	India	3(1)		2(2)	1(1)	-	2327	Thick grass Q2-3-35	Sudan	4(1)	3(1)	2(2)	1(1)	4(0)
2244	NJ 52	India	3(1)		2(1)	1(1)	5(1)	2328	Mahawi Q2-3-36	Sudan		5(1)		4(0)	3(1)
2245	ED 9	India	5(1)		2(1)	1(1)	-	2329	For shamsi Q2-3-37	Sudan	5(1)		4(2)	3(1)	4(2)
2246	Ujiga 6	India	3(1)	2(1)	2(1)	1(1)	5(1)	2330	For shamsi Q2-3-38	Sudan	4(2)	4(2)	3(1)	4(2)	3(1)
2247	T 753	India	5(1)		3(2)		5(1)	2331	Louhah Q2-3-39	Sudan	4(1)		5(1)		-
2248	T 253	India	3(1)	3(1)	2(1)	1(1)	5(1)	2332	Dandurani Q2-3-40	Sudan	4(2)	3(1)	4(2)	3(1)	-
2249	T 2H GR 3 2P	India	4(1)		2(1)	1(1)	5(1)	2333	Nyalka Q2-3-42	Sudan	5(1)	3(1)	4(1)	2(1)	4(1)
2250	T 150	India	4(1)		2(1)	1(1)	5(1)	2334	Tala Q2-3-28	Sudan	3(1)		3(2)	1(1)	5(1)
2251	T 150	India	4(1)		2(1)	1(1)	5(1)	2335	Dandurani WF Q2-3-26	Sudan	3(1)		3(2)	1(1)	5(1)
2252	Chowdh 104	India	3(1)		2(1)	1(1)	-	2336	For saki Q2-3-44	Sudan	4(1)		2(2)	1(1)	-
2253	F 718	India	4(2)	3(1)	4(1)		-	2337	Kerfahli Q2-2-92	Sudan	4(1)		2(1)	4(0)	5(1)
2254	Bl 1 Jala	India	4(1)	2(1)	1(2)	1(1)	-	2338	Nervosum Q2-2-94	Sudan	5(2)	3(1)	3(1)	-	5(1)
2255	Selection 28	India	2(1)		1(2)	1(1)	-	2339	Maghabe murgama	Sudan	2(1)		4(2)	1(1)	-
2256	Selection 211	India	2(1)		1(1)	4(2)	-	2340	Waygab	Sudan	5(2)	3(1)	2(2)	1(1)	5(1)
2257	Selection 124-3	USA	2(1)		-	-	5(1)	2341	Kopag	Sudan	4(1)		4(2)	2(2)	5(1)
2258	Quarante 11052	USA	3(2)	4(1)	2(1)	-	-	2342	Volgare	India	3(1)	2(2)	1(1)	-	-
2259	Nyan sari Q2-2-28	Sudan	2(1)		3(1)	1(1)	4(1)	2343	Volgare	India	3(1)		-	-	-
2260	Agah Q2-2-3	Sudan	2(2)	2(1)	3(0)	4(1)	2(2)	2344	Q2-2-47	India	4(1)		3(2)	4(0)	5(1)
2261	Wadi Alshabi H202-21	Sudan	4(1)	4(1)	4(1)	4(1)	4(1)	2345	Q2-2-44	Indonesia	2(1)		4(1)	5(1)	5(1)
2262	Apin AB 1 Q2-2-30	Sudan	4(2)	2(2)	2(0)	4(1)	4(1)	2346	Anterpadang Q2-3-49	Indonesia	3(1)		5(1)	-	-
2263	Dura (F) pak Q2-2-31	Sudan	3(1)		1(2)	1(1)	5(1)	2347	Q2-3-51	Indonesia	4(1)		-	4(2)	-
2264	Shadun Q2-2-51	Sudan	3(0)	3(0)	4(0)	5(1)	3(1)	2348	Midun Q2-3-52	Indonesia	2(1)	4(2)	4(2)	1(1)	5(1)
2265	Burgali almar	Sudan	3(2)	3(2)	4(2)	-	3(1)	2349	Q2-3-53	Pakistan	5(2)	3(1)	3(2)	-	-
2266	Alwayali Q2-2-63	Sudan	3(1)		3(2)	1(1)	4(1)	2350	Q2-3-54	USA	3(1)		4(2)	-	3(1)
2267	Naira 1 Q2-1-3	USA	3(0)	3(1)	2(4)	-	1(1)	2351	Q2-3-55	Afghanistan	4(1)	3(1)	2(2)	-	3(1)
2268	Banaro red Q2-1-29	USA	4(0)	3(2)	2(1)	3(1)	5(1)	2352	Ashabakia Q2-3-76	Nigeria	2(1)		2(1)	4(1)	5(1)
2269	Kafrajan Q2-1-10	USA	4(2)	4(1)	2(2)	1(1)	5(1)	2353	Kikilawani Q2-3-85	Nigeria	4(1)		3(2)	3(1)	5(1)
2270	Q2-1-44, MN 727	USA	4(4)	2(1)	3(2)	-	4(3)	2354	Igari Q2-4-17	Nigeria	4(1)		4(2)	5(1)	-
2271	Aklamite	USA	3(2)	4(1)	3(2)	1(1)	3(1)	2355	Mara Q2-4-18	Nigeria	4(1)	4(1)	3(2)	4(1)	5(1)
2272	Witchweed resistant	USA	4(2)	3(1)	3(1)	4(1)	3(1)	2356	Igari Q2-4-20	Nigeria	3(1)		4(2)	4(1)	5(1)
2273	Acro Q2-1-56	USA	3(1)		2(2)	-	3(1)	2357	Peta Q2-4-28	Nigeria	3(1)		3(1)	-	-
2274	Acro Q2-1-56	USA	3(1)		2(2)	-	3(1)	2358	Mankama Q2-4-50	Nigeria	3(1)		4(1)	4(2)	5(1)
2275	Ladace Q2-1-57	USA	5(1)		3(1)	-	-	2359	Namaba Q2-4-51	Nigeria	2(1)		4(1)	-	-
2276	Humu Mission 02	USA	4(2)	3(1)	3(1)	1(1)	4(2)	2360	Kaura Q2-4-59	Nigeria	3(1)		3(2)	-	-
2277	Behara and Bahana	USA	2(1)		3(1)	3(1)	3(1)	2361	Cruana Q2-4-61	Nigeria	3(1)		2(1)	2(1)	3(1)
2278	Ch'nam PQ2-1-73	USA	3(2)	3(1)	4(2)	-	3(1)	2362	Fara Kwana Q2-4-74	Nigeria	3(1)		3(2)	3(1)	-
2279	QHK MS Q2-2-3	USA	4(1)		4(1)	-	-	2363	Uwawato Q2-4-91	Nigeria	3(1)		3(2)	4(1)	3(1)
2280	Head hard (G) Congo	USA	5(1)	2(1)	3(1)	4(1)	3(1)	2364	Yao malika Q2-5-7	Nigeria	3(1)		3(2)	-	-
2281	Q2-2-31	USA	4(1)		4(2)	1(1)	-	2365	Indonema Q2-5-12	Indonesia	4(1)		2(2)	1(1)	5(1)
2282	Q2-2-32	USA	4(4)	2(1)	3(1)	-	3(2)	2366	Volgare Q2-5-13	Indonesia	4(2)		2(2)	1(1)	5(1)
2283	Manjaru Q2-2-36	USA	5(2)	3(1)	3(1)	-	3(2)	2367	Volgare Q2-5-23	Indonesia	4(2)		2(2)	1(1)	5(1)
2284	Hale Jaram Q2-2-37	USA	5(2)	3(1)	4(1)	-	3(1)	2368	Volgare burrah 01-174	Alghemara	2(1)		3(1)	-	-
2285	Baklo Q2-2-42	Sudan	3(1)		3(1)	-	5(1)	2369	Volgare burrah 01-174	Alghemara	2(1)		3(1)	-	-
2286	Wakad and Q2-2-45	Sudan	3(1)		2(2)	1(1)	-	2370	Volgare burrah type	India	2(1)	2(1)	1(9)	4(2)	5(1)
2287	Ngakul Bl Mau 02-2-46	Sudan	3(1)		3(1)	1(1)	4(2)	2371	Volgare Q2-3-10	India	2(1)	2(2)	1(9)	4(2)	5(1)
2288	Ma De Akhat Q2-2-48	Sudan	4(1)		3(1)	1(1)	4(2)	2372	P 1730 Q2-5-38	South Africa	4(1)		3(2)	-	3(1)
2289	Roboth Q2-2-70	Sudan	4(1)		3(2)	1(1)	3(1)	2373	P 3731 Q2-5-39	South Africa	3(1)		3(2)	-	-
2290	Sindayi Q2-2-71	Sudan	4(0)	2(0)	2(0)	4(1)	3(1)	2374	P 3732 Q2-5-40	South Africa	3(1)		3(2)	3(1)	3(1)
2291	Akaf Q2-2-7	Sudan	1(4)		4(2)	3(1)	4(2)	2375	P 3733 Q2-5-41	South Africa	3(1)		4(2)	-	-
2292	Bafan saria Q2-2-71	Sudan	4(2)	3(1)	4(2)	-	4(1)	2376	P 3734 Q2-5-42	South Africa	4(1)		4(2)	-	-
2293	Wad kumar Q2-2-74	Sudan	4(2)	3(1)	4(2)	-	3(1)	2377	P 3735 Q2-5-44	South Africa	4(2)		4(2)	-	-
2294	Wad kumar Q2-2-75	Sudan	4(2)	3(1)	4(2)	-	3(1)	2378	Tromosa Q2-5-47	South Africa	4(2)	2(1)	4(2)	-	5(1)
2295	Aklamite	Sudan	3(2)		3(1)	1(1)	3(1)	2379	For shamsi Q2-5-48	South Africa	4(2)	4(1)	4(2)	4(1)	5(1)
2296	Muralati Q2-3-5	Sudan	4(1)		4(1)	1(1)	2(1)	2380	For shamsi Q2-5-49	South Africa	4(2)	4(1)	4(2)	4(1)	5(1)
2297	Muralati Q2-3-5	Sudan	4(1)		4(1)	1(1)	2(1)	2381	For shamsi Q2-5-50	South Africa	4(2)	4(1)	4(2)	4(1)	5(1)
2298	El. Baha Q2-3-1	Sudan	4(1)	2(1)	3(1)	1(1)	3(1)	2382	For shamsi Q2-5-51	South Africa	4(2)	4(1)	4(2)	4(1)	5(1)
2299	Low lodging 01-171	Sudan	3(1)		2(1)	-	3(1)	2383	Nakaya red Q2-5-7	South Africa	4(2)	4(1)	4(1)	-	5(1)
2300	Higazi saria Q2-3-17	Sudan	3(1)	3(1)	-	3(1)	3(1)	2384	Matlaba (M) red Q2-5-7	South Africa	3(1)		4(2)	3(1)	5(1)
2301	Najal Q2-1-14	Sudan	3(1)		3(2)	1(1)	3(1)	2385	Mamun pak Q2-5-75	South Africa	3(2)	3(1)	4(2)	-	5(1)
2302	Omnia (M) Q2-1-11	Sudan	4(1)		4(2)	1(1)	3(1)	2386	Najal red Q2-5-74	South Africa	4(1)		3(2)	-	5(1)
2303	Omnia (M) Q2-1-11	Sudan	4(1)		4(2)	1(1)	3(1)	2387	Najal red Q2-5-74	South Africa	4(1)		3(2)	-	5(1)
2304	Omnia (M) Q2-1-11	Sudan	4(1)		4(2)	1(1)	3(1)	2388	Najal red Q2-5-74	South Africa	4(1)		3(2)	-	5(1)
2305	Kadobu Q2-2-76	Sudan	1(1)		1(1)	-	-	2389	Proctora red Q2-5-77	South Africa	4(2)	4(1)	3(1)	1(1)	4(1)
2306	Bahana 3 Q2-2-77	Sudan	3(1)		-	-	-	2390	For shamsi Q2-5-78	South Africa	4(0)	2(0)	4(1)	3(1)	3(1)
2307	Bahana 4 Q2-2-78	Sudan	5(4)	5(1)	3(2)	1(1)	-	2391	For shamsi Q2-5-79	South Africa	3(1)		3(1)	-	3(1)
2308	For shamsi Q2-2-80	Sudan	5(1)		2(1)	2(1)	4(1)	2392	For shamsi Q2-5-80	South Africa	3(1)		3(2)	-	3(1)
2309	Wad sari Q2-2-81	Sudan	3(1)	2(0)	2(0)	3(1)	3(1)	2393	For shamsi Q2-5-81	South Africa	3(1)		3(1)	-	3(1)
2310	Ghazali intrajava	Sudan	3(1)		3(1)	-	3(1)	2394	For shamsi Q2-5-82	South Africa	3(1)		3(1)	-	3(1)
2311	For shamsi Q2-2-81	Sudan	3(2)	4(1)	3(2)	-	3(1)	2395	For shamsi Q2-5-83	South Africa	4(2)	4(1)	3(1)	-	3(1)
2312	For shamsi Q2-2-81	Sudan	4(0)	2(1)	2(0)	4(1)	3(1)	2396	Thamun red Q2-5-84	South Africa	4(1)		3(1)	-	3(1)
2313	Ghazali Q2-2-84	Sudan	4(2)	4(1)	3(2)	1(1)	3(1)	2397	Witchweed resistant	South Africa	2(1)		3(2)	-	3(1)
2314	Shamsi WF Q2-2-81	Sudan	4(4)	2(1)	3(1)	-	4(2)	2400	Witchweed resistant	South Africa	4(2)	3(1)	3(2)	-	3(1)
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IR No	Alternate accession	Source country	SF					IR	IR No	Alternate accession	Source country	SF					IR	IR No
			R	PR	DHS	LFS	TR					R	PR	DHS	LFS	TR		
2604	MX 977	USA	5(1)	-	3(1)	5(1)	5(1)	2786	W 6	Uganda	4(1)	-	5(1)	-	-	-	-	
2605	MX 973	USA	4(2)	3(1)	3(1)	-	5(1)	2787	Z 1	Uganda	3(1)	-	3(1)	-	3(1)	-	-	
2606	MX 975	USA	4(3)	-	3(1)	-	5(1)	2789	Z 2	Uganda	4(1)	-	3(1)	-	-	-	-	
2607	MX 976	USA	3(2)	3(1)	3(1)	3(1)	4(9)	2790	Z 3	Uganda	2(1)	3(1)	3(1)	3(1)	3(1)	3(1)	3(1)	
2608	MX 977	USA	4(2)	2(2)	3(2)	3(2)	5(1)	2791	Z 4	Uganda	4(2)	3(1)	3(1)	3(1)	3(1)	3(1)	3(1)	
2609	MX 978	USA	3(1)	-	3(2)	-	5(1)	2792	Z 5	Uganda	4(1)	-	3(1)	-	3(1)	-	3(1)	
2610	MX 985	USA	3(1)	-	3(2)	-	5(1)	2793	Z 6	Uganda	3(1)	-	3(1)	-	-	-	3(1)	
2611	MX 986	USA	3(2)	4(1)	3(2)	-	4(2)	2794	Z 8	Uganda	4(1)	-	3(1)	-	-	-	3(1)	
2612	MX 989	USA	3(1)	-	3(2)	-	5(1)	2796	SG 1	Uganda	4(1)	-	3(2)	-	-	-	-	
2613	MX 988	USA	3(1)	4(1)	3(2)	-	5(1)	2797	SG 2	Uganda	3(1)	-	3(2)	-	5(1)	-	-	
2614	MX 965	USA	4(1)	-	3(2)	-	5(1)	2798	SG 9	Uganda	3(1)	5(1)	-	-	-	-	-	
2615	MX 966	USA	4(1)	-	3(2)	-	5(1)	2799	SG 5	Uganda	3(1)	-	3(2)	-	3(1)	-	-	
2621	MX 971	USA	4(1)	-	3(2)	-	5(1)	2792	SG 9	Uganda	3(1)	4(1)	-	-	5(1)	-	-	
2624	MX 976	USA	3(2)	5(1)	3(2)	-	5(1)	2793	SG 10	Uganda	3(1)	-	3(1)	-	5(1)	-	-	
2625	MX 977	USA	4(1)	-	3(2)	-	5(1)	2796	Sorghum azorei	Uganda	3(1)	-	3(1)	-	3(1)	-	-	
2628	MX 981	USA	3(1)	-	3(2)	-	4(1)	2797	Sorghum azorei	Uganda	-	-	3(2)	-	5(1)	-	-	
2629	MX 981	USA	4(1)	-	3(2)	-	5(1)	2798	Sorghum azorei	Uganda	-	-	3(1)	-	5(1)	-	-	
2630	MX 982	USA	4(1)	-	3(2)	-	5(1)	2799	Sorghum azorei	Uganda	-	-	3(1)	-	5(1)	-	-	
2631	MX 983	USA	4(2)	4(2)	3(2)	-	5(1)	2790	Sorghum	Uganda	3(1)	-	3(2)	-	3(1)	-	-	
2632	MX 984	USA	3(1)	-	3(2)	-	5(1)	2791	Sorghum sorgho	Uganda	2(1)	3(2)	3(1)	3(1)	3(1)	3(1)	3(1)	
2633	MX 985	USA	3(1)	-	3(2)	-	5(1)	2792	Sorghum sorgho	Uganda	4(1)	-	3(1)	-	-	-	-	
2634	MX 986	USA	3(1)	3(1)	3(2)	-	5(1)	2793	Sorghum sorgho	Uganda	1(1)	3(2)	3(1)	3(1)	3(1)	-	-	
2636	MX 1002	USA	3(1)	-	3(2)	-	4(9)	2794	Sorghum cell	Uganda	3(1)	-	3(2)	-	3(1)	-	-	
2638	IT 1 D	India	-	-	3(1)	-	5(1)	2795	Unbha lenya var	Uganda	3(1)	-	3(1)	-	-	-	-	
2639	Ugandan	India	-	-	2(2)	-	3(1)	2796	RC 77 2 XWIM 42 B	Uganda	3(1)	-	3(1)	-	3(1)	3(1)	3(1)	
2640	Ugandan	India	3(1)	-	3(2)	-	5(1)	2797	Nu 5037 Ka Kenya	Uganda	3(1)	-	3(1)	-	3(1)	-	-	
2641	Ugandan	India	4(2)	3(1)	3(1)	-	5(1)	2797	SB 256	Uganda	3(1)	3(2)	3(1)	-	-	-	-	
2641	BM 4-1-1	India	3(1)	3(2)	3(2)	3(1)	3(2)	2778	Unknown	Uganda	3(1)	-	4(1)	-	-	-	-	
2644	BM 1-3	India	3(1)	-	3(2)	-	3(1)	2789	IC 1 W 23 BMN1	Uganda	3(1)	-	3(1)	-	-	-	-	
2648	IT 1 R	India	3(1)	-	3(2)	-	4(2)	2791	IC 2 MS 38M1	Uganda	3(1)	-	3(1)	-	4(2)	3(1)	-	
2649	B 1	Uganda	3(1)	3(1)	3(1)	-	5(1)	2782	MS 1 M 1 S 1 Ken	Uganda	4(1)	3(1)	4(2)	-	3(2)	3(1)	-	
2650	B 5	Uganda	3(1)	-	3(1)	-	5(1)	2783	9 x IS Almer	Uganda	3(1)	-	3(1)	-	-	-	-	
2651	B 6	Uganda	3(1)	-	3(2)	-	3(1)	2787	Mulilo ex kasungu	Kenya	3(2)	-	-	-	4(2)	4(1)	-	
2652	B 7	Uganda	4(1)	-	3(1)	-	5(1)	2788	Moyra ex kasungu	Kenya	4(2)	-	4(2)	-	-	-	-	
2654	C 3	Uganda	4(1)	-	3(1)	-	5(1)	2792	Unknown	Unknown	3(1)	-	-	-	-	-	-	
2655	C 5	Uganda	3(1)	-	3(1)	-	5(1)	2793	Unknown	Unknown	3(1)	3(1)	3(1)	3(1)	-	3(1)	-	
2656	C 7	Uganda	3(1)	3(1)	4(2)	-	5(1)	2801	Et. Padi 3050	Zimbabwe	3(1)	-	3(1)	-	3(1)	3(1)	3(1)	
2658	C 9	Uganda	4(1)	-	3(2)	-	3(1)	2801	Mugabha 2026	Zimbabwe	3(1)	-	3(1)	-	3(1)	3(1)	3(1)	
2660	C 15	Uganda	3(1)	-	-	-	5(1)	2802	Unknown	Zimbabwe	3(2)	4(1)	3(1)	-	4(2)	3(1)	3(1)	
2662	C 25	Uganda	4(1)	-	3(2)	-	3(1)	2803	Wid 2631	Zimbabwe	3(1)	3(1)	3(1)	-	3(1)	3(1)	3(1)	
2663	Indones	Uganda	4(1)	-	3(1)	-	3(1)	2804	Bahama 2156	Zimbabwe	4(2)	3(1)	3(1)	-	-	-	-	
2665	G 14	Uganda	3(1)	-	3(2)	-	3(1)	2805	Bahama 3156	Zimbabwe	4(2)	3(1)	-	-	-	-	-	
2667	G 20	Uganda	3(1)	-	3(2)	-	4(1)	2806	Feterita Wad Umri	Zimbabwe	4(2)	3(1)	4(1)	-	3(2)	3(1)	-	
2668	G 22	Uganda	3(1)	-	3(1)	-	5(1)	2807	Feterita Wad Umri	Zimbabwe	3(2)	3(1)	3(1)	-	3(1)	3(1)	3(1)	
2669	G 26	Uganda	3(1)	-	-	-	5(1)	2808	Feterita Wad Umri	Zimbabwe	4(2)	4(1)	3(1)	-	4(2)	3(1)	-	
2670	G 27	Uganda	4(1)	-	-	-	3(2)	2809	Feterita Wad Umri	Zimbabwe	3(2)	3(1)	3(1)	3(1)	3(1)	3(1)	3(1)	
2671	G 28	Uganda	3(1)	3(1)	3(2)	-	4(9)	2811	Feterita Wad Umri	Zimbabwe	3(1)	3(1)	3(2)	3(1)	3(1)	3(1)	3(1)	
2672	G 29	Uganda	4(2)	3(2)	3(1)	3(1)	3(2)	2812	Feterita Marak	Zimbabwe	3(1)	-	-	-	3(1)	-	-	
2673	G 31	Uganda	3(1)	-	3(1)	-	-	2813	Feterita Marak	Zimbabwe	4(1)	-	3(2)	-	3(1)	3(1)	-	
2677	G 42	Uganda	3(1)	-	3(2)	-	-	2814	Wid 2630 13233	Zimbabwe	3(1)	4(2)	3(1)	3(1)	4(2)	3(1)	-	
2678	G 43	Uganda	3(1)	-	3(2)	-	-	2815	Mugabha 10233	Zimbabwe	3(1)	3(1)	3(2)	-	-	-	-	
2680	F 18	Uganda	3(1)	-	4(1)	-	3(1)	2817	Kisera 1651	Zimbabwe	4(2)	3(1)	3(2)	-	4(2)	-	-	
2681	F 27	Uganda	4(1)	-	3(1)	-	3(1)	2818	Wid 1000 Nyan spe	Zimbabwe	4(2)	3(1)	3(2)	-	3(1)	-	-	
2682	F 55	Uganda	3(1)	-	-	-	-	2819	Buwan 2752	Zimbabwe	4(1)	-	3(1)	-	3(1)	-	-	
2685	L 20	Uganda	4(1)	-	3(1)	-	3(1)	2820	Unknown	Zimbabwe	4(1)	3(1)	3(2)	3(1)	3(1)	3(1)	3(1)	
2687	L 33	Uganda	3(1)	-	3(2)	-	3(1)	2821	Fall bird resistant	Zimbabwe	3(1)	3(2)	4(1)	-	3(1)	3(1)	3(1)	
2688	MN 4	Uganda	3(1)	-	3(2)	-	3(1)	2822	Red Swamp local	Zimbabwe	4(1)	-	4(1)	-	4(4)	3(1)	-	
2692	Niv 431	Uganda	3(1)	3(1)	3(2)	-	3(2)	2823	Feterita Wad Umri	Zimbabwe	3(1)	-	4(1)	-	4(2)	4(1)	-	
2694	R 1	Zimbabwe	3(1)	-	4(1)	-	5(1)	2824	Wid 1000 Nyan spe	Zimbabwe	3(1)	3(1)	3(1)	-	-	-	-	
2695	R 2	Uganda	3(1)	-	3(1)	-	-	2825	Fall Bird prot 68/56	Zimbabwe	3(1)	3(1)	3(1)	-	3(3)	3(1)	-	
2696	SA 7	Uganda	4(1)	-	3(1)	-	3(1)	2826	Bird prot 146/51	Zimbabwe	3(1)	-	3(1)	-	3(1)	-	-	
2697	SA 14	Uganda	4(1)	-	3(1)	-	3(1)	2827	Bird prot 224/56	Zimbabwe	3(1)	-	3(1)	-	3(1)	-	-	
2698	SB 6	Uganda	3(2)	3(1)	3(1)	-	5(1)	2828	Unknown	Zimbabwe	4(2)	3(1)	3(2)	3(1)	3(1)	-	-	
2701	SB 37	Uganda	3(1)	3(1)	3(2)	-	5(1)	2829	Wid 226/56	Zimbabwe	3(2)	3(1)	3(2)	-	3(1)	-	-	
2704	SB 48	Uganda	3(1)	-	3(1)	-	3(1)	2830	Burnen 202/56	Zimbabwe	4(1)	-	3(1)	-	3(2)	-	-	
2705	SB 51	Uganda	4(2)	-	3(1)	-	3(1)	2831	Capensis 28/53	Zimbabwe	3(1)	-	3(2)	-	3(2)	3(1)	-	
2706	SB 59	Uganda	3(2)	2(1)	3(2)	-	3(1)	2832	Matilda 69/90	Zimbabwe	3(1)	-	3(2)	-	-	-	-	
2707	SB 117	Uganda	4(1)	-	3(2)	-	5(1)	2833	Capensis 6/50	Zimbabwe	4(2)	4(1)	3(1)	-	5(1)	-	-	
2709	NH 209	Uganda	3(1)	-	3(1)	3(1)	5(1)	2834	Bird resistant 69/56	Zimbabwe	3(1)	2(2)	3(1)	-	3(1)	3(1)	3(1)	
2710	SB 210	Uganda	4(1)	-	3(1)	3(1)	5(1)	2835	Mat. Feterita 139/51	Zimbabwe	4(1)	-	4(2)	-	3(1)	3(1)	3(1)	
2714	SB 229	Uganda	4(1)	-	3(2)	-	-	2836	Swatland PBI 169/1	Zimbabwe	4(2)	3(1)	3(2)	-	3(1)	3(1)	3(1)	
2722	SB 281	Uganda	3(1)	-	3(2)	-	4(1)	2837	Hoax doos	Zimbabwe	3(1)	-	3(2)	-	-	-	-	
2723	SB 287	Uganda	3(1)	3(1)	3(1)	3(1)	5(1)	2838	Ambucaze	Zimbabwe	3(1)	-	2(4)	-	3(1)	-	-	
2724	SB 288	Uganda	4(1)	3(1)	3(2)	-	4(1)	2839	Ambucaze	Zimbabwe	-	-	3(1)	-	-	-	-	
2728	Bolu 9 76	Uganda	3(1)	-	3(1)	3(1)	-	2840	Unknown	Zimbabwe	2(2)	4(1)	3(2)	3(1)	4(1)	3(1)	3(1)	
2728	T 1	Uganda	3(1)	-	3(1)	-	5(1)	2841	Unknown	Zimbabwe	3(1)	-	3(1)	-	3(1)	-	-	
2729	T 11	Uganda	3(1)	-	3(1)	-	5(1)	2842	Shamanga 37/56	Zimbabwe	3(2)	4(1)	4(1)	-	3(2)	3(1)	-	
2730	T																	

IS No	Alternative accession identifier	Source country	SP				SB				IS No	Alternative accession identifier	Source country	SP				SB			
			R	PR	DRS	DR	R	PR	DRS	DR				R	PR	DRS	DR	R	PR	DRS	DR
2049	Bare proof	South Africa	4(1)	-	4(1)	-	4(1)	-	4(1)	-	2046	Yel End IP	USA	3(1)	-	3(1)	-	3(1)	-	3(1)	-
2050	Pineau man	South Africa	5(2)	4(1)	4(1)	-	4(2)	5(3)	5(4)	2047	Yel End IP	USA	3(1)	-	3(1)	-	3(1)	-	3(1)	-	
2051	Oven T. unclerified	South Africa	3(1)	-	3(1)	3(1)	5(1)	5(1)	5(1)	2048	Yel End IP	USA	4(1)	-	3(2)	-	3(1)	5(1)	5(1)	5(1)	
2052	Kumbe	South Africa	1(1)	-	2(1)	1(1)	4(1)	5(1)	5(1)	2049	Yel End IP	USA	3(1)	-	3(1)	-	3(1)	-	3(1)	-	
2053	W/1 lightning	South Africa	3(1)	-	3(1)	3(1)	5(1)	5(1)	5(1)	2050	Yel End up-shala	USA	3(1)	-	3(1)	-	3(1)	-	3(1)	-	
2054	Hearnard	South Africa	3(1)	-	3(1)	-	5(1)	-	-	2051	Yel End up-shala	USA	4(2)	4(1)	3(1)	-	5(2)	5(1)	-	-	
2055	AW 7013	South Africa	5(1)	-	4(1)	-	5(1)	-	-	2052	Yel End up-shala	USA	2(1)	-	3(1)	-	3(1)	5(1)	5(1)	5(1)	
2056	M/1 Swaziland	South Africa	3(1)	-	3(1)	-	-	-	-	2053	Yel End Shalla	USA	3(1)	-	3(1)	-	3(1)	-	3(1)	-	
2057	Serles	South Africa	5(2)	3(1)	3(1)	-	3(1)	-	-	2054	Yel End Shalla	USA	4(2)	3(1)	2(1)	-	5(2)	5(1)	-	-	
2058	Norholm USA	South Africa	4(1)	-	3(1)	-	5(1)	-	-	2055	Yel End Shalla	USA	3(1)	3(1)	2(1)	-	5(2)	5(1)	-	-	
2059	Natal weed	South Africa	5(2)	2(3)	3(1)	1(1)	3(1)	3(1)	3(1)	2056	Yel End Shalla no 4	Ethiopia	3(1)	3(1)	3(1)	-	5(1)	-	-	-	
2060	Red weed	South Africa	4(2)	3(1)	3(1)	-	5(1)	-	-	2057	Jamaica market	Ethiopia	3(1)	-	3(1)	-	5(1)	-	-	-	
2061	W/1 bullfinch	South Africa	4(2)	4(1)	4(1)	3(1)	4(1)	4(1)	4(1)	2058	Jamaica market	Ethiopia	3(1)	-	3(1)	-	5(1)	-	-	-	
2062	Frankie	South Africa	4(1)	4(1)	3(1)	-	4(2)	5(1)	5(1)	2059	Jamaica market	Ethiopia	4(1)	-	3(1)	-	5(1)	-	-	-	
2063	Vie red hegan	South Africa	4(1)	-	4(1)	-	5(1)	4(1)	4(1)	2060	Jamaica market	Ethiopia	5(1)	-	-	-	-	-	-	-	
2064	Vie red hegan	South Africa	3(1)	-	3(1)	-	4(1)	5(1)	5(1)	2061	Jamaica market	Ethiopia	3(1)	2(1)	-	-	-	-	-	-	
2065	Vie red hegan	South Africa	4(1)	-	3(1)	-	4(1)	5(1)	5(1)	2062	Jamaica market	Ethiopia	5(1)	-	-	-	-	-	-	-	
2066	Wintersome	South Africa	5(1)	-	2(3)	1(1)	3(1)	3(1)	3(1)	2063	Jamaica market	Ethiopia	3(1)	-	4(2)	3(1)	-	-	-	-	
2067	Kuggerdip	South Africa	4(1)	3(2)	3(1)	3(1)	3(1)	3(1)	3(1)	2064	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2068	Red weath	South Africa	4(1)	-	4(1)	-	5(1)	5(1)	5(1)	2065	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2069	SW 57	South Africa	5(2)	4(1)	3(1)	-	5(1)	5(1)	5(1)	2066	Jamaica market	Ethiopia	3(1)	-	2(2)	-	3(1)	-	-	-	
2070	Kilza 545	Egypt	3(1)	-	3(1)	-	4(1)	-	-	2067	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2071	Kilza 123	Egypt	3(2)	4(1)	4(1)	-	-	-	-	2068	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2072	Kilza 559	Egypt	4(2)	3(1)	3(2)	1(1)	4(1)	5(1)	5(1)	2069	Jamaica market	Ethiopia	5(1)	-	-	-	-	-	-	-	
2073	Kilza 379	Egypt	3(1)	-	3(1)	-	4(2)	5(1)	5(1)	2070	Jamaica market	Ethiopia	3(1)	-	3(2)	-	4(1)	-	-	-	
2074	Kilza 14	Egypt	3(2)	3(2)	4(2)	-	4(1)	5(1)	5(1)	2071	Jamaica market	Ethiopia	4(1)	-	-	-	-	-	-	-	
2075	Kilza 4715	Egypt	4(1)	-	4(1)	-	-	-	-	2072	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2076	Kilza 659	Egypt	3(2)	4(1)	3(2)	1(1)	3(1)	5(1)	5(1)	2073	Jamaica market	Ethiopia	3(1)	-	-	-	-	-	-	-	
2077	Kilza 250	Egypt	4(1)	-	3(2)	1(1)	3(1)	5(1)	5(1)	2074	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	3(1)	-	-	-	
2078	Kilza 159	Egypt	4(1)	-	4(2)	-	-	-	-	2075	Jamaica market	Ethiopia	4(2)	3(1)	2(2)	-	-	-	-	-	
2079	K 33 M 33 B	Egypt	3(1)	-	3(1)	-	3(1)	5(1)	5(1)	2076	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2080	M 659	Egypt	3(1)	-	3(2)	1(1)	3(1)	5(1)	5(1)	2077	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2081	Vie hegan, R 150	Australia	3(1)	-	4(1)	-	3(1)	5(1)	5(1)	2078	Jamaica market	Ethiopia	3(1)	-	3(1)	-	-	-	-	-	
2082	FAO 4482	Italy	4(2)	3(1)	3(2)	1(1)	3(1)	3(1)	3(1)	2079	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2083	FAO 4484	Italy	2(1)	-	4(1)	-	5(1)	5(1)	5(1)	2080	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2084	FAO 4485	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2081	Jamaica market	Ethiopia	4(1)	-	-	-	-	-	-	-	
2085	FAO 4486	Italy	2(1)	-	3(2)	-	-	-	-	2082	Jamaica market	Ethiopia	3(1)	-	4(1)	-	-	-	-	-	
2086	FAO 4487	Italy	3(1)	-	2(2)	1(1)	3(1)	3(1)	3(1)	2083	Jamaica market	Ethiopia	3(2)	4(2)	3(1)	-	5(1)	-	-	-	
2087	FAO 4488	Italy	4(2)	3(1)	3(2)	3(1)	3(1)	3(1)	3(1)	2084	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2088	FAO 4489	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2085	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2089	FAO 4490	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2086	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2090	FAO 4491	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2087	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2091	FAO 4492	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2088	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2092	FAO 4493	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2089	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2093	FAO 4494	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2090	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2094	FAO 4495	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2091	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2095	FAO 4496	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2092	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2096	FAO 4497	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2093	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2097	FAO 4498	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2094	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2098	FAO 4499	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2095	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2099	FAO 4500	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2096	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2100	FAO 4501	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2097	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2101	FAO 4502	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2098	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2102	FAO 4503	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2099	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2103	FAO 4504	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2100	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2104	FAO 4505	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2101	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2105	FAO 4506	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2102	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2106	FAO 4507	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2103	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2107	FAO 4508	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2104	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2108	FAO 4509	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2105	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2109	FAO 4510	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2106	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2110	FAO 4511	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2107	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2111	FAO 4512	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2108	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2112	FAO 4513	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2109	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2113	FAO 4514	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2110	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2114	FAO 4515	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2111	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2115	FAO 4516	Italy	3(1)	-	3(2)	1(1)	3(1)	3(1)	3(1)	2112	Jamaica market	Ethiopia	3(1)	-	3(2)	3(1)	-	-	-	-	
2116	FAO 4517	Italy	3(1)	-	3(2)	1(1)	3(1)														

IS No	Abernethy accession identifier	Source country	R						IS No	Abernethy accession identifier	Source country	S					
			R	PR	SH	DR	JR	R				PR	SH	DR	JR		
3074	Albu mites	Sudan	3(1)	-	2(8)	(1)	(1)	1108	Purdue #1152	USA	4(2)	(1)	4(1)	-	3(1)		
3075	Carotte de la	Sudan	5(2)	3(1)	2(5)	(1)	(1)	1109	Purdue #1155	USA	2(1)	-	2(2)	(1)	-		
3076	Alfalfa white	Sudan	3(1)	-	3(1)	(1)	(1)	1200	Purdue #1160 op	USA	3(1)	-	4(1)	-	-		
3077	Festuca 1931	Sudan	3(1)	-	3(1)	(1)	(1)	1201	Purdue #1160	USA	3(1)	-	4(1)	-	5(1)		
3079	Festuca wald lupini	Sudan	4(1)	-	5(1)	-	-	0719	Purdue #1166	USA	2(1)	-	3(1)	-	-		
3080	Soda	Sudan	5(1)	-	2(2)	(1)	(1)	1221	Purdue #1166	USA	3(1)	-	4(1)	-	-		
3081	From itabian	Iran	3(1)	-	3(1)	-	-	1222	Purdue #1180-2	USA	3(1)	-	3(1)	-	-		
3082	From fern	Iran	3(1)	-	2(2)	(1)	-	0513	Purdue #1188-1	USA	2(1)	-	3(1)	-	5(1)		
3083	From alvaz	Iran	5(1)	-	4(1)	-	5(1)	1714	Purdue #1190	USA	3(1)	-	4(1)	-	3(1)		
3085	From mashed	Iran	5(1)	-	4(1)	-	7(1)	0719	Purdue #1198 op	USA	3(1)	-	3(1)	-	-		
3086	PI 190576	USA	5(1)	3(1)	3(1)	-	5(1)	1216	Purdue #1198-1	USA	3(1)	-	4(1)	-	5(1)		
3087	PI 190620	USA	5(2)	3(1)	2(1)	-	5(1)	0210	Purdue #1200-1	USA	2(1)	-	4(1)	-	-		
3088	Unknown	USA	4(1)	-	-	-	5(1)	1222	Purdue #1220	USA	2(1)	-	3(1)	-	-		
3089	PI 228122	USA	3(1)	-	-	-	5(1)	1223	Purdue #1223	USA	2(1)	-	3(1)	-	-		
3090	PI 240906	USA	3(1)	4(1)	3(1)	-	-	0219	Purdue #1227	USA	2(1)	-	3(1)	-	5(1)		
3096	S. elaeagnifolia	USA	4(1)	-	3(1)	-	-	1226	Purdue #1227-1	USA	2(1)	-	4(1)	-	-		
3098	S. elaeagnifolia	USA	4(1)	3(1)	-	-	-	0228	Purdue #1230	USA	2(1)	-	-	-	-		
3104	Unknown	USA	5(1)	-	5(1)	-	5(1)	1229	Purdue #1230-1	USA	2(1)	-	-	-	-		
3106	S. nemoralis	USA	5(1)	-	3(1)	-	-	0210	Purdue #1233	USA	3(1)	-	3(1)	-	-		
3107	S. phoenicea	USA	3(1)	-	2(1)	-	5(1)	0211	Purdue #1233-2	USA	2(1)	-	3(1)	-	-		
3109	S. sibirica	USA	3(2)	3(1)	-	-	-	0214	Purdue #1236-1	USA	2(1)	-	4(1)	-	3(1)		
3112	S. stolonifera	USA	5(1)	-	4(1)	-	-	1245	Purdue #1237 op	USA	3(1)	-	-	-	-		
3113	S. submontana	USA	4(1)	-	2(1)	-	-	1216	Purdue #1244-1	USA	3(1)	-	4(1)	-	5(1)		
3121	PI 226096	USA	3(1)	-	3(1)	-	-	1247	Purdue #1247	USA	3(1)	-	4(1)	-	3(1)		
3122	PI 173315	USA	3(1)	-	3(1)	-	5(1)	1248	Purdue #1247	USA	4(1)	-	4(1)	-	5(1)		
3123	PI 185458	USA	4(1)	-	3(1)	-	-	1249	Purdue #1248-1	USA	3(1)	-	4(1)	-	-		
3124	Unknown	USA	5(1)	3(1)	3(1)	-	-	1242	Unknown	USA	3(1)	-	3(1)	-	-		
3125	Unknown	USA	3(1)	-	3(1)	-	-	1241	Purdue #1253-1	USA	3(1)	-	4(1)	-	3(1)		
3126	Unknown	USA	4(1)	-	4(1)	-	-	1240	Purdue #1256	USA	5(1)	-	4(1)	-	5(1)		
3127	PI 211747	USA	4(1)	-	-	-	-	1246	Purdue #1260	USA	5(1)	-	2(2)	-	-		
3129	Unknown	USA	3(1)	-	3(1)	-	5(1)	1247	Purdue #1261	USA	5(1)	-	5(1)	-	-		
3133	PI 220616	USA	3(1)	-	3(1)	-	5(1)	1248	Purdue #1264	USA	5(1)	-	4(1)	-	5(1)		
3134	S. acuminata	South Africa	5(1)	-	2(2)	-	5(1)	1250	Purdue #1270	USA	5(1)	-	4(1)	-	5(1)		
3135	S. alba	South Africa	3(1)	-	3(1)	-	5(1)	1252	Purdue #1275-1	USA	5(1)	-	3(1)	-	3(1)		
3136	Unknown	South Africa	5(1)	4(1)	3(1)	3(1)	3(1)	1254	Purdue #1290	USA	2(1)	-	3(1)	-	-		
3137	Unknown	South Africa	4(1)	-	3(1)	-	5(1)	1254	Purdue #1302	USA	5(1)	-	3(1)	-	5(1)		
3138	DL 5077	South Africa	4(1)	3(1)	2(2)	3(1)	-	1258	Purdue #1302 op	USA	3(1)	-	3(1)	-	5(1)		
3139	DL 600118	South Africa	3(1)	-	3(1)	-	-	1259	Purdue #1303	USA	3(1)	-	3(2)	-	5(1)		
3140	DL 601116	South Africa	2(1)	-	3(2)	-	5(1)	1260	Purdue #1303-1	USA	3(1)	-	4(1)	-	-		
3141	DL 601119	South Africa	4(2)	3(1)	3(2)	-	5(1)	1263	Purdue #1303-2	USA	5(1)	-	3(2)	-	5(1)		
3142	DL 601120	South Africa	4(2)	4(1)	3(1)	(1)	3(1)	1265	Purdue #1321-1	USA	2(1)	-	3(2)	-	-		
3144	Unknown	South Africa	4(1)	-	3(1)	-	5(1)	1266	Purdue #1336	USA	4(1)	-	3(1)	-	-		
3145	Unknown	South Africa	5(2)	4(1)	3(1)	-	5(1)	1267	Purdue #1339	USA	2(1)	-	3(2)	-	5(1)		
3146	S. nigricans	South Africa	4(1)	-	2(2)	(1)	-	1268	Purdue #1339-1	USA	2(1)	-	3(1)	-	3(1)		
3147	S. nigricans	South Africa	4(1)	(1)	3(1)	-	3(1)	1270	Purdue #1341-1	USA	2(1)	-	3(1)	-	-		
3148	Haakbos	South Africa	3(1)	-	3(1)	-	-	1271	Purdue #1366 op	USA	3(1)	-	-	-	-		
3149	Bird proof	South Africa	4(2)	4(1)	3(1)	-	3(1)	1272	Purdue #1366 op	USA	4(1)	-	3(1)	-	5(1)		
3150	Bird proof	South Africa	3(1)	-	3(1)	-	3(1)	1274	Purdue #1374	USA	3(1)	-	3(2)	-	3(1)		
3151	Panicum burg	South Africa	4(2)	3(1)	3(1)	-	3(1)	1275	Purdue #1374-1	USA	4(1)	-	4(1)	-	5(1)		
3152	Panicum burg	South Africa	3(1)	-	3(1)	-	3(1)	1276	Purdue #1375	USA	3(1)	-	3(1)	-	-		
3153	Bird proof	South Africa	2(1)	-	3(1)	-	2(1)	1279	Purdue #1360	USA	4(1)	-	3(1)	-	-		
3154	Zinnia white	South Africa	2(1)	-	3(1)	-	-	1280	Purdue #1364 op	USA	3(1)	-	4(1)	-	5(1)		
3155	Green sage incand	South Africa	4(2)	3(1)	3(1)	3(1)	5(1)	1282	Purdue #1383	USA	5(1)	-	3(1)	-	5(1)		
3156	Tabacco scortell	South Africa	4(1)	-	3(1)	-	5(1)	1283	Purdue #1383-1	USA	3(1)	-	2(2)	-	5(1)		
3157	Tanacetum thymoides	South Africa	2(1)	-	3(1)	-	5(1)	1284	Purdue #1384	USA	3(1)	-	3(1)	-	-		
3158	Early leaf	South Africa	3(1)	-	3(1)	-	3(1)	1287	Purdue #1393-1	USA	4(1)	-	-	-	-		
3159	Scutellaria	South Africa	4(1)	3(1)	3(1)	-	3(1)	1289	Purdue #1393	USA	3(1)	-	3(1)	-	5(1)		
3160	Unknown	South Africa	4(2)	3(1)	3(1)	-	5(1)	1290	Purdue #1393	USA	3(1)	-	3(1)	-	5(1)		
3161	Unknown	South Africa	2(1)	-	3(1)	-	5(1)	1291	Purdue #1393-1	USA	2(1)	-	3(1)	-	5(1)		
3162	Wald lupini	South Africa	3(1)	-	3(1)	-	5(1)	1293	Purdue #1402-2	USA	4(1)	-	3(1)	-	-		
3163	Red	South Africa	4(1)	-	3(2)	-	5(1)	1297	Purdue #1424	USA	4(1)	-	3(1)	-	5(1)		
3164	Scutellaria	South Africa	3(1)	-	3(2)	-	5(1)	1299	Purdue #1429-2	USA	2(1)	-	3(1)	-	-		
3165	et. R. 64	South Africa	4(1)	-	3(2)	-	5(1)	1301	Purdue #1422-1	USA	2(1)	-	3(1)	-	-		
3166	Red	South Africa	3(1)	-	3(1)	-	5(1)	1302	Purdue #1433 op	USA	2(1)	-	3(1)	-	5(1)		
3167	Erpogon	South Africa	4(1)	-	3(1)	-	5(1)	1303	Purdue #1433-2	USA	3(1)	-	4(1)	-	-		
3168	Algerian	South Africa	4(1)	-	3(1)	-	5(1)	1306	Purdue #1433	USA	2(1)	-	4(1)	-	5(1)		
3169	Baldwinia white leaf	South Africa	3(2)	3(1)	3(1)	-	-	1307	Purdue #1432	USA	4(1)	-	2(1)	-	-		
3170	Black red	South Africa	4(1)	-	3(2)	-	-	1308	Purdue #1432-2	USA	5(1)	-	4(1)	-	5(1)		
3171	Bird proof	South Africa	3(1)	-	3(1)	-	-	1309	Purdue #1439	USA	4(1)	-	3(2)	-	-		
3172	Black red	South Africa	4(2)	3(2)	3(1)	(1)	5(1)	1310	Purdue #1439	USA	4(1)	-	3(2)	-	5(1)		
3173	et. S. P. 20	Ghana	4(2)	-	3(1)	-	5(1)	1312	Purdue #1439-2	USA	4(1)	-	3(1)	-	-		
3174	Red leaf	Ghana	2(1)	-	3(1)	-	5(1)	1313	Purdue #1464	USA	4(1)	-	2(1)	-	5(1)		
3175	Unknown	Ghana	2(1)	-	3(1)	-	-	1314	Purdue #1464-1	USA	4(1)	-	3(1)	-	-		
3176	Unlabeled A 101	Ghana	3(1)	-	-	-	-	1315	Purdue #1464-2	USA	4(1)	-	4(1)	-	5(1)		
3177	Unlabeled	Ghana	2(2)	-	3(1)	(1)	-	1316	Purdue #1464-3	USA	4(1)	-	3(1)	-	5(1)		
3180	Purdue #1115-1	USA	4(1)	-	4(1)	-	5(1)	1318	Purdue #1468	USA	3(1)	-	3(1)	-	5(1)		
3191	Purdue #1112	USA	3(1)	-	3(1)	-	-	1319	Purdue #1481-1	USA	2(1)	-	3(1)	-	-		
3192	Purdue #1112-1	USA	4(1)	-	3(2)	(1)	5(1)	1321	Purdue #1501	USA	3(1)	-	3(1)	-	-		
3193	Purdue #1119	USA	3(1)	-	3(1)	-	-	1322	Purdue #1501-1	USA	4(1)	-	4(1)	-	-		
3195	Purdue #1147 op	USA	3(1)	-	2(1)	-	5(1)	1323	Purdue #1501-3	USA	4(1)	-	4(1)	-	-		
3196	Purdue #1147-1	USA	4(1)	-	3(1)	-	5(1)	1324	Purdue #1507	USA	4(1)	-	3(1)	-	-		
3197	Purdue #1149	USA	3(1)	-	3(1)	-	-	1328	Purdue #1517	USA	5(1)	-	3(1)	-	-		

IS No	Alignaceae accession	Source country	SP				HB				IS No	Alignaceae accession	Source country	SP				HB			
			R	PK	DN	BJS	DN	BJS	DN	BJS				R	PK	DN	BJS	DN	BJS	DN	BJS
4136	Amilakhan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	1(1)	4233	Chicoria badin	India	3(1)	-	2(1)	1(1)	-	-	-	-	
4137	Tarwaris	India	3(1)	-	2(1)	1(1)	1(1)	-	-	4234	Pila bambi kalpan	India	2(1)	1(1)	2(1)	1(1)	5(1)	5(1)	-	-	
4138	Tarwaris	India	3(1)	-	1(1)	-	-	-	-	4235	Ganga bani kalpan	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	-	-	
4139	Kanjanpur	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4236	Pila badin kalpan	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4140	Kanba	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4237	Wethikawan lehera	India	3(1)	-	2(1)	-	4(1)	-	-	-		
4141	Kanba	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4238	Wethikawan lehera	India	3(1)	-	2(1)	-	4(1)	-	-	-		
4142	Kanba	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4239	Wethikawan lehera	India	3(1)	-	2(1)	-	4(1)	-	-	-		
4143	Kanba	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4240	Wethikawan lehera	India	3(1)	-	2(1)	-	4(1)	-	-	-		
4144	Hattipura	India	4(1)	-	3(1)	-	-	-	4241	Rani marikhet	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4145	Unkown	India	4(1)	2(1)	4(1)	-	-	-	4242	Kanjanpur marikhet	India	3(1)	4(1)	3(1)	1(1)	1(1)	4(1)	4(1)	4(1)		
4146	Khandar	India	4(1)	-	3(1)	-	-	-	4243	Pila bambi kalpan	India	4(1)	-	3(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4147	Khandar	India	4(1)	-	3(1)	-	-	-	4244	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4150	Khandar	India	3(1)	4(1)	3(1)	1(1)	-	-	4245	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4151	Khandar	India	3(1)	-	2(1)	-	-	-	4246	Peela chalur	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4152	Im	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4249	Mujga gungar	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4153	Jambhapan	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4250	Peeta bundi	India	4(1)	-	3(1)	1(1)	-	-	-	-		
4154	Borda	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4251	Chikni kalpan	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4155	Borda	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4252	Chikni kalpan	India	3(1)	4(1)	3(1)	1(1)	-	-	-	-		
4156	Borda	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4253	Chikni kalpan	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4157	Borda	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4254	Pila gungar	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4158	Aamota	India	4(1)	-	3(1)	-	-	-	4255	Ratal	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4159	Aamota	India	4(1)	-	3(1)	-	-	-	4256	Ratal	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4160	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4257	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4161	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4258	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4162	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4259	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4163	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4260	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4164	Sargol	India	2(1)	-	1(1)	-	-	-	4261	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4165	Sargol	India	4(1)	3(1)	3(1)	1(1)	1(1)	1(1)	4262	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4166	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4263	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4167	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4264	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4168	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4265	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4169	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4266	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4170	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4267	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4171	Sargol	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4268	Chicowadi	India	3(1)	-	2(1)	1(1)	5(1)	5(1)	5(1)	5(1)		
4172	Chikankota wota	India	3(1)	1(1)	2(1)	1(1)	1(1)	1(1)	4269	Chikankota wota	India	3(1)	1(1)	2(1)	1(1)	1(1)	1(1)	1(1)	1(1)		
4173	Chikankota wota	India	3(1)	1(1)	2(1)	1(1)	1(1)	1(1)	4270	Chikankota wota	India	3(1)	1(1)	2(1)	1(1)	1(1)	1(1)	1(1)	1(1)		
4174	Shwal	India	4(1)	4(1)	4(1)	1(1)	1(1)	1(1)	4271	Shwal	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4175	Rajasthan	India	4(1)	-	3(1)	1(1)	1(1)	1(1)	4272	Khara watala	India	3(1)	-	2(1)	1(1)	-	-	-	-		
4176	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4273	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4177	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4274	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4178	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4275	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4179	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4276	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4180	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4277	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4181	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4278	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4182	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4279	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4183	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4280	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4184	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4281	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4185	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4282	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4186	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4283	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4187	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4284	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4188	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4285	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4189	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4286	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4190	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4287	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4191	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4288	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4192	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4289	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4193	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4290	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4194	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4291	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4195	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4292	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4196	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4293	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4197	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4294	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4198	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4295	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4199	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4296	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4200	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4297	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4201	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4298	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4202	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4299	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4203	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4300	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4204	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4301	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4205	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4302	Mahala hilliker	India	3(1)	-	2(1)	1(1)	4(1)	4(1)	4(1)	4(1)		
4206	Rajasthan	India	3(1)	-	2(1)	1(1)	1(1)	1(1)	4303	Mahala hilliker	India	3(1)	-	2(1)							

IS No	Alternate accession identifier	Alternate accession identifier	Source country	RF				IS No	Alternate accession identifier	Source country	RF						
				R	PK	DMS	JPS				DR	DR	R	PK	DMS	JPS	MD
4706	Dagen Inche	India	4131	2531	3521	-	5111	5211	4792	Aurelli	India	2111	-	3121	4111	5121	5211
4707	Agara sukajati	India	2111	-	2121	3111	5111	5111	4793	Dera lacal keratiga	India	2111	-	3121	4111	5121	5211
4708	Nilawa sukajati	India	2111	-	3121	4111	5111	5111	4794	Desa lundak	India	2111	-	3111	-	5111	5111
4710	Shallu makdang	India	3121	2111	2121	3111	5111	5111	4795	Desa lundak	India	2111	-	3121	4111	5121	5211
4711	Maldand kumkand	India	3121	2111	2121	3111	5111	5111	4796	Pagur	India	2111	-	3121	4111	5121	5211
4712	Maldand mangun	India	4131	2531	3521	-	5111	5211	4797	Ungkawan	India	-	-	3121	4111	5121	5211
4713	Dagen rasajati	India	3121	-	-	-	-	5111	4798	Wadadi local	India	2111	-	3121	4111	5121	5211
4716	Jawaq bagas	India	3121	4111	4121	-	5111	5111	4799	Pagur	India	2111	-	3121	4111	5121	5211
4717	Jawaq bagas	India	4131	-	4121	-	5111	5111	4800	Pagur	India	2111	-	3121	4111	5121	5211
4718	Nilekheri	India	2111	-	3121	-	5111	5111	4801	Papurai	India	2111	-	3121	-	5111	5111
4719	Nilekheri	India	2111	-	3121	-	5111	5111	4802	Jannavar	India	-	-	3121	4111	-	-
4720	Nilekheri	India	3111	-	3121	-	5111	5111	4803	Jannavar	India	2111	-	3121	4111	-	-
4721	Jawaq sukajati	India	4131	-	4121	-	5111	5111	4804	Jannavar	India	2111	-	3121	4111	-	-
4725	Sania	India	4121	3111	3121	4111	5111	5211	4805	Wadadi local	India	1111	-	2121	3111	5111	5111
4723	Sania	India	4111	3111	3121	4111	5111	5211	4806	Wadadi local	India	3111	-	4111	4121	5111	5211
4724	Sania	India	2111	-	3111	-	3121	3121	4807	Kaanoor gopal poular	India	3111	-	3121	4111	5121	5211
4725	Sania	India	4121	3111	3121	4111	5111	5211	4808	Umoenget pilafan	India	3111	-	3121	4111	5121	5211
4726	Sania	India	2111	-	3121	4111	5111	5211	4809	Dand	India	3111	-	3121	4111	5121	5211
4727	Sania	India	2111	-	3121	4111	5111	5211	4810	Dand	India	3111	-	3121	4111	5121	5211
4728	Hujawa	India	3111	-	3111	3121	4111	5211	4811	Alindip	India	3111	-	3121	4111	-	-
4729	Hujawa	India	2111	-	3121	4111	5111	5211	4812	Mowala sanadaya	India	4121	-	4111	5111	5121	5211
4730	Bojawa	India	4111	-	3121	4111	5111	5211	4813	Bojawa emporan	India	2111	-	3121	4111	5121	5211
4731	Bojawa	India	4111	3111	3121	4111	5111	5211	4814	Balawari	India	2111	-	2121	-	5111	-
4732	Bojawa	India	2111	-	3121	4111	5111	5211	4815	Balawari	India	3111	-	3121	4111	-	-
4733	Hujawa	India	2111	-	3121	4111	5111	5211	4816	Balawari	India	1111	-	2121	3111	5111	5111
4734	Vagadi beji	India	2111	3111	3121	4111	5111	5211	4817	Balawari	India	4121	2111	3111	4111	5121	5211
4735	Vagadi beji	India	2111	-	3121	4111	5111	5211	4818	Jumula suwe	India	1111	-	3111	-	-	-
4736	Vagadi beji	India	3111	-	3121	4111	5111	5211	4819	Jawaq kaari	India	4111	-	3111	-	5121	5211
4737	Vagadi beji	India	2111	-	3121	4111	5111	5211	4820	Jawaq kaari	India	2111	3121	4111	5121	5211	5211
4738	Vagadi beji	India	3111	-	3121	4111	5111	5211	4821	Jawaq kaari	India	4121	3121	4111	5121	5211	5211
4739	Vagadi beji	India	2111	-	2121	-	5111	5111	4822	Dhimalda	India	2111	-	3121	4111	5121	5211
4740	Vagadi beji	India	2111	-	3121	-	5111	5111	4823	Dhimalda	India	4121	3121	4111	5121	5211	5211
4741	Vagadi bhambana	India	2111	-	3121	4111	5111	5211	4824	Sankhal	India	2111	-	3121	4111	-	-
4742	Lihagu	India	2111	-	3121	4111	5111	5211	4825	Fien	India	2111	3111	4111	-	-	-
4743	Taghbar Luchhabad	India	4121	-	3121	4111	5111	5211	4826	Khanpur	India	4111	-	3111	-	-	-
4744	Taghbar Luchhabad	India	4121	-	3121	4111	5111	5211	4827	Ratu pawa Khanpur	India	3111	-	3121	4111	-	-
4745	Tyaji	India	4111	3111	3121	4111	5111	5211	4828	Mogur	India	2111	-	3121	-	5111	5111
4746	Desa Lagadana	India	1111	-	1121	1111	2111	4111	4829	Kangad tanchi	India	2111	-	3121	-	-	-
4747	Desa Lagadana	India	2111	-	2121	-	3111	4111	4830	Ngulawa	India	3121	2111	3111	4111	-	-
4748	Desa Lagadana	India	4111	3111	3121	4111	5111	5211	4831	Sankhal Kanti	India	3121	3111	4111	5121	5211	5211
4749	Desa Lagadana	India	2111	-	3111	-	3121	4111	4832	Sankhal Kanti	India	3111	-	3121	4111	5121	5211
4750	Wagadi bramla	India	4121	3111	3121	4111	5111	5211	4833	Amra	India	2111	-	3111	-	-	-
4751	Wagadi bramla	India	4121	3111	3121	4111	5111	5211	4834	Lewa utara C 2	India	3121	3111	4111	5121	5211	5211
4752	Wagadi bramla	India	4121	3111	3121	4111	5111	5211	4835	Sankhal arund	India	2111	-	3121	4111	5121	5211
4753	Wagadi bramla	India	3121	3111	3121	4111	5111	5211	4836	Petau sarah	India	2111	-	3121	4111	5121	5211
4754	Tyaji bramla	India	1111	-	2121	-	3111	5111	4837	Vellawa lokal maseno	India	2211	-	3121	4111	-	-
4755	Wagadi rera amara	India	3121	-	3121	-	4111	5111	4838	Pap tipe maseno	India	1111	-	3121	4111	-	-
4756	Wagadi rera amara	India	4121	3111	3121	4111	5111	5211	4839	Pap tipe maseno	India	1111	-	3111	-	-	-
4757	Wagadi rera amara	India	2111	3111	3121	4111	5111	5211	4840	Vary maseno	India	2111	-	3111	-	-	-
4758	Gumbarwa	India	3111	-	3121	-	4111	5111	4841	Yellow type aban	India	2111	-	3121	4111	-	-
4759	Desa demawari	India	3121	-	3121	4111	5111	5211	4842	Yellow type aban	India	2111	-	3121	4111	-	-
4760	Desa demawari	India	2111	-	3111	-	3121	4111	4843	Gumbarwa	India	2111	-	3121	4111	-	-
4762	Kayur	India	2111	-	3111	3121	4111	5111	4844	Kayur	India	1111	-	3121	4111	-	-
4763	Desa khajanti	India	2111	-	3111	3121	4111	5111	4845	Sanduri	India	2111	-	3111	4111	4121	5111
4764	Desa khajanti	India	2111	-	3111	3121	4111	5111	4846	Sanduri	India	2111	-	3121	4111	-	-
4765	Khantari	India	3121	-	3111	3121	4111	5111	4847	Vary maseno	India	4121	3111	4111	5121	5211	5211
4766	Mandi khantari	India	4121	3111	3121	4111	5111	5211	4848	Pap tipe maseno	India	2211	-	3121	4111	-	-
4767	Tarik khantari	India	2211	-	3111	3121	4111	5111	4849	Debar chakrawa	India	4121	3111	4111	5121	5211	5211
4768	Tarik khantari	India	2211	-	3111	3121	4111	5111	4850	Dhantari chakrawa	India	2211	-	3111	-	-	-
4769	Kalyani	India	2111	-	2121	-	3111	5111	4851	Chayawadi	India	4121	-	3121	4111	-	-
4770	Kalyani	India	2111	-	3121	4111	5111	5211	4852	Kalyani	India	3111	-	3111	-	-	-
4771	Kalyani	India	2111	-	3111	-	3121	4111	4853	T mchilwa	India	4111	-	3111	-	-	-
4772	Kalyani	India	1111	-	3121	-	4111	5111	4854	Kalyani	India	3111	-	3111	-	-	-
4773	Tarikali	India	1111	-	1121	1111	2111	4111	4855	Melawa dila	India	2121	-	3121	-	4111	5111
4774	Tarikali	India	1111	-	1111	-	3121	4111	4856	Melawa dila	India	3111	-	3121	4111	5121	5211
4775	Desa hawad	India	-	-	1121	1111	2111	4111	4857	Tambun	India	2111	-	3121	-	4111	5111
4776	Majawa	India	4121	3111	3121	4111	5111	5211	4858	Hajura	India	2111	-	3121	-	5111	5111
4777	Gandhali panchala	India	3121	3111	3121	4111	5111	5211	4859	Hajura	India	2111	-	3121	-	5111	5111
4778	Gandhali panchala	India	2211	-	3111	-	3121	4111	4860	Hajura	India	1111	-	3121	4111	-	-
4779	Gandhali panchala	India	2211	-	3111	-	3121	4111	4861	Arbi	India	2111	-	3121	4111	5121	5211
4780	Veerandi	India	2211	-	3111	-	3121	4111	4862	Arbi	India	4111	-	3121	4111	5121	5211
4781	Unkawan	India	3121	3111	3121	4111	5111	5211	4863	S.N.Walk	India	2111	-	3121	4111	5121	5211
4782	Unkawan	India	2211	-	3111	-	3121	4111	4864	S.N.Walk	India	2111	-	3121	4111	5121	5211
4783	T mchilwa	India	2211	-	3111	-	3121	4111	4865	Dalgadi B K	India	1121	-	3121	4111	-	-
4784	Gudi tarung	India	3111	-	3121	-	4111	5111	4866	Dalgadi B K	India	1121	-	3121	4111	-	-
4785	Kalyani	India	2211	-	3111	-	3121	4111	4867	Dalgadi B K	India	1121	-	3121	4111	5121	5211
4786	Kalyani	India	2211	-	3111	-	3121	4111	4868	Dalgadi B K	India	1111	-	3121	-	5111	-
4787	Wawari	India	2211	-	3111	-	3121	4111	4869	Homonagun S K	India	3111	-	3121	4111	5121	5211
4788	Uaru	India	2211	-	3111	-	3121	4111	4870	Homonagun S K	India	3111	-	3121	4111	5121	5211
4789	Amanti	India	1111	-	2121	-	3111	5111	4871	Homonagun S K	India	3111	-	3121	4111	-	-
4790	Amanti	India	3121	3111	3121	4111	5111	5211	4872	Homonagun S K	India	3111	-	3121	4111	-	-
4791	Amanti	India	3121	3111	3121	4111	5111	5211	4873	Gudhali S K	India	-	-	3111	-	-	-
4792	Amanti	India	1111	-	2121	41											

IS No	Alternate description identifier	Source country	SF					SR					IS No	Alternate description identifier	Source country	SF					SR							
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5340	Kaka cholam	India	511	-	2021	313	-	-	-	-	5387	Khairi yagaru jala	India	511	-	2051	313	-	-	-	-	-	-	-	-	-	-	-
5341	Mangal cholam	India	511	-	2053	313	-	-	-	5388	Doddala jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5342	Aashuk cholam	India	511	-	2023	313	-	-	-	5389	Khairi bilu jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5343	Kenchalam	India	511	-	2021	313	-	-	-	5390	Bangaru jala	India	511	-	201	313	-	-	-	-	-	511	-	2021	313	-	-	-
5344	Yeras nenobu	India	511	-	2021	313	-	-	-	5391	Muttina mudu	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5345	Yeras nenobu	India	511	-	2021	313	-	-	-	5392	Vagaru jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5346	Vilumbhadi latam	India	511	-	1029	313	-	-	-	5393	Channolaga jala	India	511	-	2021	313	-	-	-	-	511	-	2021	313	-	-	-	-
5347	Kaka cholam	India	511	-	2021	313	-	-	-	5394	Dhama jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5348	Kaka cholam	India	511	-	2021	313	-	-	-	5395	Matturaga jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5349	Matturaga cholam	India	511	-	1021	313	-	-	-	5396	Vagaru jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5349	Kragu cholam	India	511	-	2021	313	-	-	-	5397	Bili jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5411	Sanchalam	India	511	-	2041	313	-	401	502	5398	Vagaru jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	
5412	Makkata cholam	India	511	-	1023	313	-	-	-	5399	Kaka jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5413	Vagaru cholam	India	511	-	1021	313	-	-	-	5400	Muruthu jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5414	Kaka cholam	India	511	-	2021	313	-	-	-	5401	Taru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5415	Mangal cholam	India	511	-	2051	313	-	-	-	5402	Taru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5416	Vellai cholam	India	511	-	2021	313	-	-	-	5403	Baki jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5417	Pen cholam	India	511	-	2021	313	-	-	-	5404	Kaku jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5418	Matturaga cholam	India	511	-	1023	313	-	-	-	5405	Muttina gudu jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5419	Sema cholam	India	511	-	1023	313	-	-	-	5406	Karanu jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5420	Kamakka cholam	India	511	-	2021	313	-	-	-	5407	Muttina gudu jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5421	Karanu cholam	India	511	-	1023	313	-	401	501	5408	Bili jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	
5422	Karanu cholam	India	511	-	2021	313	-	-	-	5409	Bili jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5423	Karanu cholam	India	511	-	2021	313	-	-	-	5410	Bili jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5424	Karanu cholam	India	511	-	1021	313	-	401	501	5411	Bili jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5425	Sem cholam	India	511	-	1021	313	-	-	-	5412	Kodur jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5426	Vellai cholam	India	511	-	2041	313	-	511	512	5413	Bili jala (pala)	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	
5427	Vellai cholam	India	511	-	2041	313	-	511	514	5414	Vagaru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	
5428	Karanu cholam	India	511	-	2051	313	-	-	-	5415	Bili jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5429	Karanu cholam	India	511	-	204	313	-	511	511	5417	Bili jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	
5430	Savagge cholam	India	511	-	1023	313	-	-	-	5418	Kanda karumana jala	India	511	-	2021	313	-	-	-	-	511	-	2021	313	-	-	-	-
5431	Channolaga cholam	India	511	-	1023	313	-	-	-	5420	Doddala jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5432	Irungu cholam	India	511	-	201	313	-	-	-	5421	Vagaru kettaru jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5433	Irungu cholam	India	511	-	201	313	-	511	511	5422	Baldeni mangaru jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	
5434	Irungu cholam	India	511	-	1021	313	-	511	511	5423	Bili mangaru dadda jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	
5436	Irungu cholam	India	511	-	1021	313	-	-	-	5424	Bili kettaru jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5437	Irungu cholam	India	511	-	1021	313	-	401	512	5425	Vagaru kettaru jala	India	511	-	2021	313	-	-	-	-	511	-	2021	313	-	-	-	-
5438	Vellai karanu cholam	India	511	-	201	313	-	511	512	5426	Vagaru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	
5439	Mama kattaru cholam	India	511	-	201	313	-	511	513	5427	Vagaru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	
5440	Sem kottaru cholam	India	511	-	201	313	-	511	515	5428	Bili jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	
5441	Irungu cholam	India	511	-	201	313	-	511	-	5429	Karanu mudala jala	India	511	-	2021	313	-	-	-	-	511	-	2021	313	-	-	-	-
5442	Irungu cholam	India	511	-	1021	313	-	511	-	5430	Karanu jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5443	Irungu cholam	India	511	-	1021	313	-	-	-	5431	Karanu jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5444	Irungu cholam	India	511	-	1021	313	-	-	-	5432	Tella jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5445	Irungu cholam	India	511	-	1021	313	-	-	-	5433	Vetta jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5446	Matturaga cholam	India	511	-	1021	313	-	-	-	5434	Tella jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5447	Azadi mudu cholam	India	511	-	1021	313	-	512	-	5435	Tella jala (talavara)	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5448	Irungu cholam	India	511	-	1023	313	-	-	-	5436	Bili irungaru jala	India	511	-	1021	313	-	-	-	-	-	-	-	-	-	-	-	-
5449	Karanu cholam	India	511	-	1021	313	-	512	512	5437	Irungu jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5450	Malla naruru jala	India	511	-	201	313	-	512	512	5438	Irungu jala	India	511	-	2021	313	-	-	-	-	-	-	-	-	-	-	-	-
5451	Pal cholam	India	511	-	101	313	-	512	512	5439	Khairi Mangaru jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5452	Congatta cholam	India	511	-	101	313	-	512	512	5440	Irungu jala	India	511	-	101	313	-	-	-	-	-	-	-	-	-	-	-	-
5453	Congatta cholam	India	511	-	101	313	-	401	512	5441	Khairi mangaru jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5454	Tella cholam	India	511	-	1021	313	-	512	512	5442	Karanu jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5455	Tella cholam	India	511	-	1021	313	-	-	-	5443	Irungu jala	India	511	-	201	313	-	-	-	-	511	-	2021	313	-	-	-	-
5456	Vellai cholam	India	511	-	1021	313	-	-	-	5444	Khairi mangaru jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5457	Vellai cholam	India	511	-	1021	313	-	-	-	5445	Kala jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5458	Vellai cholam	India	511	-	1021	313	-	-	-	5446	Alla jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5459	Vellai cholam	India	511	-	2021	313	-	511	511	5447	Kennu jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5460	Matta cholam	India	511	-	201	313	-	511	511	5448	Bili jala	India	511	-	201	313	-	-	-	-	-	-	-	-	-	-	-	-
5461	Poluru channolaga	India	511	-	101	313	-	511	512	5449	Bhargaru kadu	India	511	-	1021	313	-	-	-	-	511	-	2021	313	-	-	-	-
5462	Chinna channolaga	India	511	-	101	313	-	511	512	5450	Kappa irupai ninnaru	India	511	-	101	313	-	-	-	-	-	-	-	-	-	-	-	-
5463	Chinna channolaga	India	511	-	101	313	-	511	512	5451	Kappa irupai ninnaru	India	511	-	101	313	-	-	-	-								

IS No	Alternate accession identifier	Source country	NF						IS No							
			R	PR	DHS	LF/S	HR	DR	R	PR	DHS	LF/S	HR	DR		
5578	Hindian jala	India	511	-	525	-	-	565	Jambhudi jala	India	542	447	521	-	541	543
5579	Dhuleli jala	India	541	271	101	511	512	565	Jambhudi jala	India	541	501	421	-	541	543
5580	Amraoti jala	India	511	-	511	511	-	565	Sadga ram-leaf	India	511	-	511	-	-	-
5581	Amraoti jala	India	541	501	255	511	512	567	Alla or allana jala	India	521	321	511	-	-	-
5582	Laxnau jala	India	541	-	525	511	-	567	M. jala bakhali	India	541	-	511	511	-	-
5583	Angadi jala	India	541	-	275	511	512	567	Alla or allana jala	India	511	-	441	511	-	-
5584	Hih jala	India	541	212	275	511	511	567	Lado mardani	India	511	-	341	511	-	-
5585	Kempu jala	India	541	243	249	421	511	567	Bali gani jala	India	541	-	271	511	-	-
5586	M. local chittaur	India	541	26	242	511	511	567	Mangalpuru bakri	India	511	411	341	511	511	513
5587	Kempu jala	India	411	511	321	511	511	567	Kempe palgani bakri	India	511	-	245	511	-	-
5588	Keerji jala	India	541	-	321	511	511	567	Nigani jala	India	511	-	315	511	-	-
5589	Kempu jala	India	541	-	275	511	512	567	Allana jala	India	511	-	441	511	-	-
5590	Kempu jala	India	541	243	252	511	-	567	Alla mardani	India	511	-	441	-	-	-
5591	Kodmiri malkhad	India	541	525	511	511	513	567	Alla jala	India	541	-	511	-	-	-
5592	Keerji jala	India	521	511	521	-	-	567	Sehil jala	India	511	-	441	-	-	-
5593	Keerji jala	India	521	511	521	511	513	567	Sehil jala	India	511	-	441	-	-	-
5594	Keerji jala	India	541	-	275	511	513	567	Kotimangru bakrak	India	541	-	315	511	-	-
5595	Keerji jala	India	541	243	421	511	513	567	Panrajaji jala	India	541	-	441	-	-	-
5596	Bardolahi fortakani	India	511	-	275	511	513	567	Allana jala	India	511	-	441	-	-	-
5598	Reer nabhi jala	India	541	211	269	511	513	567	Alla or allana jala	India	511	-	341	511	-	-
5599	Sakari jala	India	541	511	173	511	513	567	Polide	India	541	-	315	511	-	-
5600	Nakati jala	India	511	-	321	511	513	567	Famili	India	541	-	341	511	-	-
5601	Nakati jala	India	511	-	321	511	513	567	Sandri	India	511	-	341	511	-	-
5602	Nakati jala	India	411	271	311	-	513	567	Lon	India	511	-	341	511	-	-
5603	Nakati jala	India	541	271	311	-	513	567	Lon	India	511	-	341	511	-	-
5604	Alla jala or Jambhudi	India	341	509	169	421	513	567	Kaneta Rajmali	India	511	-	341	511	-	-
5605	Nakati jala	India	541	271	311	-	513	567	Enger bahi	India	511	-	341	511	-	-
5606	Nakati jala	India	541	271	311	-	513	567	Jamta bahi, Jampe	India	511	-	441	511	-	-
5607	Karati jala	India	541	311	222	-	-	567	Kavita ghata	India	511	-	271	511	511	-
5608	Philla mulliga jala	India	241	413	343	-	511	567	Kamta Khet	India	511	-	341	511	-	-
5609	Alla or allana jala	India	541	413	243	511	511	567	Kamta Khet	India	511	-	341	511	-	-
5610	Bhambhi urda jala	India	541	-	275	511	511	567	Udi dung kotech	India	411	-	242	511	-	-
5613	Bardolahi urda jala	India	469	289	169	421	513	567	Udi dung kotech	India	411	-	315	511	-	-
5614	Nakati jala	India	511	211	321	511	511	569	Gimra tara chandi	India	541	-	242	511	-	-
5615	Nakati jala	India	441	271	311	-	511	569	Nakati jala	India	511	-	241	-	541	-
5616	Godagampe jala	India	541	249	511	511	511	569	Gimra tara chandi	India	441	-	341	511	421	513
5617	Godagampe jala	India	441	271	311	511	511	569	Gimra tara chandi	India	511	211	241	511	511	513
5618	Dhuleli jala	India	541	-	275	511	512	569	Gimra tara chandi	India	511	-	241	511	-	-
5619	Kempu jala	India	541	241	291	421	511	569	Gimra tara chandi	India	511	-	241	511	511	513
5620	Chand poweri	India	541	311	271	511	512	569	Hajani	India	511	-	242	511	-	-
5621	Chand jala	India	411	241	511	-	511	569	Panrajaji	India	511	-	242	441	511	513
5622	Kada jala	India	341	491	141	-	451	441	Yehara	India	511	-	242	441	511	513
5623	Alla or allana jala	India	541	271	271	511	511	569	Gidini	India	511	-	242	-	441	511
5624	Hibbi jala	India	521	411	371	511	511	569	Mona or gidini	India	511	-	341	-	511	511
5625	Pratoli jala	India	511	-	321	511	-	569	Jamra ramali	India	511	-	242	511	511	-
5626	N. N. Jamnani jala	India	341	411	412	241	-	569	Jamra ramali	India	511	-	242	441	511	513
5627	Dhuleli jala	India	541	271	271	511	511	569	Jamra ramali	India	511	-	242	441	511	513
5628	Godagampe jala	India	541	411	511	-	569	569	Jamra ramali	India	511	-	242	441	511	513
5629	Chand jala	India	469	271	341	511	-	569	Masara chandi	India	511	-	421	-	541	513
5630	Hale mullakad	India	441	271	311	511	511	569	Masara chandi	India	511	-	341	-	541	-
5631	Hih jala	India	441	271	311	511	511	569	Masara chandi	India	511	-	341	-	541	-
5632	Dhuleli jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5633	Alla or allana jala	India	469	271	311	-	441	541	Masara chandi	India	511	-	341	-	541	-
5634	Alla or allana jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5635	Godagampe jala	India	441	271	311	511	511	569	Masara chandi	India	511	-	341	-	541	-
5636	N. N. Jamnani jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5637	Hih jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5638	Kamraj	India	541	271	271	511	511	569	Masara chandi	India	511	-	341	-	541	-
5639	Hih gani jala	India	411	-	321	511	511	569	Masara chandi	India	511	-	341	-	541	-
5640	Chingra jala	India	541	-	311	511	-	569	Masara chandi	India	511	-	341	-	541	-
5641	Godaga jala	India	441	-	311	511	-	569	Masara chandi	India	511	-	341	-	541	-
5642	Yemgar jala	India	441	271	311	511	511	569	Masara chandi	India	511	-	341	-	541	-
5643	Dhuleli jala	India	541	411	411	511	511	569	Masara chandi	India	511	-	341	-	541	-
5644	Godaga jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5645	Yemgar jala	India	441	271	311	511	511	569	Masara chandi	India	511	-	341	-	541	-
5646	Chingra jala	India	541	-	311	511	-	569	Masara chandi	India	511	-	341	-	541	-
5647	Godaga jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5648	Kamraj	India	541	271	271	511	511	569	Masara chandi	India	511	-	341	-	541	-
5649	Hih gani jala	India	411	-	321	511	511	569	Masara chandi	India	511	-	341	-	541	-
5650	Chingra jala	India	541	-	311	511	-	569	Masara chandi	India	511	-	341	-	541	-
5651	Godaga jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5652	N. N. Jamnani jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5653	Hih jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5654	N. N. Jamnani jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5655	Godagampe jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5656	N. N. Jamnani jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5657	Hih jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5658	Kamraj	India	541	271	271	511	511	569	Masara chandi	India	511	-	341	-	541	-
5659	Hih gani jala	India	411	-	321	511	511	569	Masara chandi	India	511	-	341	-	541	-
5660	Chingra jala	India	541	-	311	511	-	569	Masara chandi	India	511	-	341	-	541	-
5661	Godaga jala	India	541	-	275	511	-	569	Masara chandi	India	511	-	341	-	541	-
5662	Yemgar jala	India	441	271	311	511	511	569	Masara chandi	India	511	-	341			

IS No	Alternative accession	Source country	SF				MID		IS No	Alternative accession	Source country	SF				MID	
			R	PK	THS	LPS	TR	TR				R	PK	THS	LPS	TR	TR
5750	Bharat	India	503	-	325	-	511	5877	Jhansi kandel	India	503	-	313	343	-	-	
5751	Dewas	India	502	-	329	011	-	5878	Bani kandel	India	503	-	321	-	-	-	
5752	Champur	India	502	-	325	011	511	5879	Jaal kandel	India	503	-	342	-	511	-	
5753	...	India	503	-	313	011	-	5880	K hamrao kandel	India	503	-	342	-	-	-	
5754	Pura	India	503	-	323	011	-	5881	Safed bedra	India	503	-	323	011	-	-	
5755	Jami kanchal baou	India	503	-	303	403	-	5882	Peela bedra	India	503	-	309	-	-	-	
5756	Hanera daribhanga	India	503	-	321	403	-	5883	Safed bedra	India	503	-	342	011	-	-	
5757	Kangra	India	503	-	321	011	-	5884	Safed bedra	India	503	-	325	011	-	-	
5758	Shilowa kank wana	India	504	511	313	011	-	5885	Peela bedra	India	503	-	323	011	-	-	
5759	Shilowa nagara	India	503	-	321	403	-	5886	Taha nagagan	India	503	-	325	011	-	-	
5760	Shilowa medinaga	India	503	-	323	503	-	5887	Safed nagagan	India	503	-	325	011	-	-	
5761	Shilowa arna	India	503	-	321	503	-	5888	Safed bedra	India	503	-	323	011	-	-	
5762	Shilowa kulwara	India	503	-	321	-	511	5889	Shilwa	India	503	-	323	011	-	-	
5763	Karantia ashimra	India	503	-	321	011	-	5890	Safed bedra	India	503	-	321	011	-	-	
5764	Karantia ashimra	India	503	-	321	011	-	5891	Peela bedra	India	503	-	321	011	-	-	
5765	...	India	503	-	323	011	-	5892	Peela bedra	India	503	-	323	011	-	-	
5766	Kalkana hardichad	India	503	-	321	011	-	5893	Taha nagagan	India	503	-	323	011	-	-	
5767	...	India	503	-	323	011	-	5894	Jularia khamaara	India	503	-	321	011	-	-	
5768	Chola padma	India	503	-	321	011	-	5895	Kirtigagan khamaara	India	503	-	323	011	411	-	
5769	Chola rajyasa	India	503	-	321	011	-	5896	...	India	503	-	323	011	-	-	
5770	Sisua pari hat	India	503	-	313	-	-	5897	Kantia khamaara	India	503	-	321	011	-	-	
5771	Sisua pari hat	India	503	411	321	011	-	5898	Chaura bedmra	India	503	-	323	011	503	-	
5772	Sadei	India	503	-	321	011	503	5899	Shilwa darinaga	India	503	-	323	011	-	-	
5773	Nandai samthal	India	503	-	321	011	-	5900	Safed bedra	India	503	-	323	011	-	-	
5774	Limpada	India	503	-	321	011	-	5901	Safed bedra	India	503	-	323	011	-	-	
5775	Haza padu	India	503	-	321	011	-	5902	Peela bedra	India	503	-	323	011	-	-	
5776	Shilwa postiya	India	503	-	323	011	-	5903	Shilwa ghara	India	503	-	321	011	-	-	
5777	Pomraya	India	503	-	323	011	-	5904	Safed bedra	India	503	-	323	011	-	-	
5778	Chola kawa samtha	India	503	-	323	011	-	5905	Safed bedra	India	503	-	323	011	-	-	
5779	Taljhari	India	503	-	323	011	-	5906	Peela bedra	India	503	-	323	011	-	-	
5780	Khal dhna	India	503	-	321	011	-	5907	Jhaura khapa	India	503	-	313	011	-	-	
5781	Sandorpur	India	503	-	323	011	-	5908	Ta no er	India	503	-	323	-	-	-	
5782	Sandorpur	India	503	-	323	011	-	5909	Ajhalu	India	503	-	321	011	-	-	
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5786	Natigat	India	503	-	323	011	-	5913	...	India	503	-	323	011	-	-	
5787	Naschi	India	503	-	323	011	-	5914	...	India	503	-	323	011	-	-	
5788	Keranga	India	503	-	313	-	-	5915	...	India	503	-	323	011	-	-	
5789	Senaraja	India	503	-	321	011	-	5916	...	India	503	-	323	011	-	-	
5790	Senaraja	India	503	-	321	011	-	5917	...	India	503	-	323	011	-	-	
5791	Ranpur	India	503	-	321	011	-	5918	...	India	503	-	323	011	-	-	
5792	Ranpur	India	503	-	321	011	-	5919	...	India	503	-	323	011	-	-	
5793	Ranpur	India	503	-	323	011	-	5920	...	India	503	-	323	011	-	-	
5794	Kishanpur	India	503	-	323	011	-	5921	...	India	503	-	323	011	-	-	
5795	Ranpur	India	503	-	323	011	-	5922	...	India	503	-	323	011	-	-	
5796	Mehi	India	503	-	323	011	-	5923	...	India	503	-	323	011	-	-	
5797	Dandi	India	503	-	323	011	-	5924	...	India	503	-	323	011	-	-	
5798	Rajman	India	503	-	323	011	-	5925	...	India	503	-	323	011	-	-	
5799	Safed bedra	India	503	-	323	011	-	5926	...	India	503	-	323	011	-	-	
5800	Bani	India	503	-	321	011	511	5927	...	India	503	-	323	011	-	-	
5801	Bani	India	503	-	323	011	-	5928	...	India	503	-	323	011	-	-	
5802	Safed bedra	India	503	-	323	011	-	5929	...	India	503	-	323	011	-	-	
5803	Peela bedra	India	503	-	323	011	-	5930	...	India	503	-	323	011	-	-	
5804	Safed bedra	India	503	-	323	011	-	5931	...	India	503	-	323	011	-	-	
5805	Peela bedra	India	503	-	323	011	-	5932	...	India	503	-	323	011	-	-	
5806	Haza bedra	India	503	-	323	011	-	5933	...	India	503	-	323	011	-	-	
5807	Jhamska bedra	India	503	-	323	011	-	5934	...	India	503	-	323	011	-	-	
5808	Safed bedra	India	503	-	323	011	-	5935	...	India	503	-	323	011	-	-	
5809	Safed bedra	India	503	-	323	011	-	5936	...	India	503	-	323	011	-	-	
5810	Safed bedra	India	503	-	323	011	-	5937	...	India	503	-	323	011	-	-	
5811	Safed bedra	India	503	-	323	011	-	5938	...	India	503	-	323	011	-	-	
5812	Peela bedra	India	503	-	323	011	-	5939	...	India	503	-	323	011	-	-	
5813	Jhamska kumra	India	503	-	323	011	-	5940	...	India	503	-	323	011	-	-	
5814	Haza kumra	India	503	-	321	011	-	5941	...	India	503	-	323	011	-	-	
5815	Tal jwari kumra	India	503	-	321	-	511	5942	...	India	503	-	323	011	-	-	
5816	Khan kumra	India	503	-	321	011	-	5943	...	India	503	-	323	011	-	-	
5817	Safed bedra	India	503	-	321	011	-	5944	...	India	503	-	323	011	-	-	
5818	Peela bedra	India	503	-	323	011	-	5945	...	India	503	-	323	011	-	-	
5819	Peela bedra	India	503	-	323	011	-	5946	...	India	503	-	323	011	-	-	
5820	Peela bedra	India	503	-	323	011	-	5947	...	India	503	-	323	011	-	-	
5821	Peela bedra	India	503	-	323	011	-	5948	...	India	503	-	323	011	-	-	
5822	Safed bedra	India	503	-	323	011	-	5949	...	India	503	-	323	011	-	-	
5823	Safed bedra	India	503	-	323	011	-	5950	...	India	503	-	323	011	-	-	
5824	Safed bedra	India	503	-	323	011	-	5951	...	India	503	-	323	011	-	-	
5825	Safed bedra	India	503	-	323	011	-	5952	...	India	503	-	323	011	-	-	
5826	Safed bedra	India	503	-	323	011	-	5953	...	India	503	-	323	011	-	-	
5827	Safed bedra	India	503	-	323	011	-	5954	...	India	503	-	323	011	-	-	
5828	Safed bedra	India	503	-	323	011	-	5955	...	India	503	-	323	011	-	-	
5829	Safed bedra	India	503	-	323	011	-	5956	...	India	503	-	323	011	-	-	
5830	Safed bedra	India	503	-	323	011	-	5957	...	India	503	-	323	011	-	-	
5831	Safed bedra	India	503	-	323	011	-	5958	...	India	503	-	323	011	-	-	

IS No	Alternate accession identifier	Source country	SF					IS No	Alternate accession identifier	Source country	SF				
			R	PK	DRS	DR	TR				R	PK	DRS	DR	TR
5014	Bani	India	5(1)	-	3(2)	1(1)	5017	Bhimraji	India	4(1)	-	3(2)	1(1)		
5015	Jamshedpur	India	5(1)	-	3(2)	1(1)	5018	Havari	India	4(1)	-	3(2)	1(1)		
5016	Kashimbar	India	5(1)	-	3(2)	1(1)	5019	Prithvi	India	5(1)	-	3(2)	1(1)		
5017	Kashimbar	India	5(1)	-	3(2)	1(1)	5020	Mafia	India	5(1)	-	3(2)	1(1)		
5018	Shanawa	India	5(1)	-	3(2)	1(1)	5021	Lakar khari	India	5(1)	-	3(2)	1(1)		
5019	Shanawa	India	5(1)	-	3(2)	1(1)	5022	Char dulari	India	5(1)	-	3(2)	1(1)		
5020	Bilad	India	5(1)	-	3(2)	1(1)	5023	Char khali	India	5(1)	-	3(2)	1(1)		
5021	Bilad	India	5(1)	-	3(2)	1(1)	5024	Char bahawal	India	5(1)	-	3(2)	1(1)		
5022	Bilad	India	5(1)	-	3(2)	1(1)	5025	Char bahawal	India	5(1)	-	3(2)	1(1)		
5023	Kom jala	India	3(1)	-	3(2)	1(1)	5026	Char bahawal	India	4(1)	-	3(2)	1(1)		
5024	Nirwa	India	5(1)	-	3(2)	1(1)	5027	Char bahawal	India	4(1)	-	3(2)	1(1)		
5025	Gayatri	India	5(1)	-	3(2)	1(1)	5028	Chini Char Zabeen	India	5(1)	-	3(2)	1(1)		
5026	Goma	India	5(1)	-	3(2)	1(1)	5029	Rafi char	India	5(1)	-	3(2)	1(1)		
5027	Tala	India	5(1)	-	3(2)	1(1)	5030	Char	India	5(1)	-	3(2)	1(1)		
5028	Nilua	India	3(1)	-	3(2)	1(1)	5031	Arwa garbhawala	India	5(1)	-	3(2)	1(1)		
5029	Minnoli	India	3(1)	-	3(2)	1(1)	5032	Jowar garbhawala	India	5(1)	-	3(2)	1(1)		
5030	Majhava	India	5(1)	-	3(2)	1(1)	5033	Jowar bahawal	India	4(1)	-	3(2)	1(1)		
5031	Tala	India	5(1)	-	3(2)	1(1)	5034	Jowar dhanam	India	5(1)	-	3(2)	1(1)		
5032	Roharda	India	5(1)	-	3(2)	1(1)	5035	Jowar bahawal	India	5(1)	-	3(2)	1(1)		
5033	Jhokori chhar	India	5(1)	-	3(2)	1(1)	5036	Jowar garbhawal	India	5(1)	-	3(2)	1(1)		
5034	Chharwa	India	5(1)	-	3(2)	1(1)	5037	Jowar chhar mahala	India	5(1)	-	3(2)	1(1)		
5035	Kandwa	India	5(1)	-	3(2)	1(1)	5038	Majhava char	India	5(1)	-	3(2)	1(1)		
5036	Kanpur	India	5(1)	-	3(2)	1(1)	5039	Majhava char	India	5(1)	-	3(2)	1(1)		
5037	Kanpur	India	5(1)	-	3(2)	1(1)	5040	Majhava char	India	5(1)	-	3(2)	1(1)		
5038	Nandini	India	5(1)	-	3(2)	1(1)	5041	Gobindgarh	India	5(1)	-	3(2)	1(1)		
5039	Sagga	India	5(1)	-	3(2)	1(1)	5042	Hampuri	India	5(1)	-	3(2)	1(1)		
5040	Lakshmanpur	India	5(1)	-	3(2)	1(1)	5043	Chhali	India	5(1)	-	3(2)	1(1)		
5041	Lakshmanpur	India	5(1)	-	3(2)	1(1)	5044	Chhali	India	5(1)	-	3(2)	1(1)		
5042	Sadewa	India	5(1)	-	3(2)	1(1)	5045	Jandula	India	5(1)	-	3(2)	1(1)		
5043	Masuli	India	5(1)	-	3(2)	1(1)	5046	Gobindgarh	India	5(1)	-	3(2)	1(1)		
5044	Jowar garbhawal	India	5(1)	-	3(2)	1(1)	5047	Gobindgarh	India	5(1)	-	3(2)	1(1)		
5045	Jawar	India	5(1)	-	3(2)	1(1)	5048	Gobindgarh	India	5(1)	-	3(2)	1(1)		
5046	Leavaya	India	5(1)	-	3(2)	1(1)	5049	Lad	India	5(1)	-	3(2)	1(1)		
5047	Jawa	India	5(1)	-	3(2)	1(1)	5050	Lad	India	5(1)	-	3(2)	1(1)		
5048	Jawa	India	5(1)	-	3(2)	1(1)	5051	Bangura	India	5(1)	-	3(2)	1(1)		
5049	Sikheri	India	5(1)	-	3(2)	1(1)	5052	Majhava khari	India	5(1)	-	3(2)	1(1)		
5050	Saraha	India	5(1)	-	3(2)	1(1)	5053	Char jagwar	India	5(1)	-	3(2)	1(1)		
5051	Bilwa pehali	India	5(1)	-	3(2)	1(1)	5054	Char jagwar	India	5(1)	-	3(2)	1(1)		
5052	Dhyanwan	India	5(1)	-	3(2)	1(1)	5055	Char jagwar	India	5(1)	-	3(2)	1(1)		
5053	Peeli dhu Lak	India	5(1)	-	3(2)	1(1)	5056	Nairua	India	5(1)	-	3(2)	1(1)		
5054	Dhedra rawa	India	5(1)	-	3(2)	1(1)	5057	Nairua	India	5(1)	-	3(2)	1(1)		
5055	Dhodana mura	India	5(1)	-	3(2)	1(1)	5058	Nairua	India	5(1)	-	3(2)	1(1)		
5056	Dhodra mura	India	5(1)	-	3(2)	1(1)	5059	Nairua	India	5(1)	-	3(2)	1(1)		
5057	Dhodra mura	India	5(1)	-	3(2)	1(1)	5060	Nairua	India	5(1)	-	3(2)	1(1)		
5058	Dhodra bhadrawan	India	5(1)	-	3(2)	1(1)	5061	Nairua	India	5(1)	-	3(2)	1(1)		
5059	Dhodra bhadrawan	India	5(1)	-	3(2)	1(1)	5062	Nairua	India	5(1)	-	3(2)	1(1)		
5060	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5063	Nairua	India	5(1)	-	3(2)	1(1)		
5061	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5064	Dhag char	India	5(1)	-	3(2)	1(1)		
5062	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5065	Dhag char	India	5(1)	-	3(2)	1(1)		
5063	Dhodra karni	India	5(1)	-	3(2)	1(1)	5066	Dhag char	India	5(1)	-	3(2)	1(1)		
5064	Dhodra karni	India	5(1)	-	3(2)	1(1)	5067	Dhag char	India	5(1)	-	3(2)	1(1)		
5065	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5068	Dhag char	India	5(1)	-	3(2)	1(1)		
5066	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5069	Dhag char	India	5(1)	-	3(2)	1(1)		
5067	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5070	Dhag char	India	5(1)	-	3(2)	1(1)		
5068	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5071	Dhag char	India	5(1)	-	3(2)	1(1)		
5069	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5072	Dhag char	India	5(1)	-	3(2)	1(1)		
5070	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5073	Dhag char	India	5(1)	-	3(2)	1(1)		
5071	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5074	Dhag char	India	5(1)	-	3(2)	1(1)		
5072	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5075	Dhag char	India	5(1)	-	3(2)	1(1)		
5073	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5076	Dhag char	India	5(1)	-	3(2)	1(1)		
5074	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5077	Dhag char	India	5(1)	-	3(2)	1(1)		
5075	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5078	Dhag char	India	5(1)	-	3(2)	1(1)		
5076	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5079	Dhag char	India	5(1)	-	3(2)	1(1)		
5077	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5080	Dhag char	India	5(1)	-	3(2)	1(1)		
5078	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5081	Dhag char	India	5(1)	-	3(2)	1(1)		
5079	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5082	Dhag char	India	5(1)	-	3(2)	1(1)		
5080	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5083	Dhag char	India	5(1)	-	3(2)	1(1)		
5081	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5084	Dhag char	India	5(1)	-	3(2)	1(1)		
5082	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5085	Dhag char	India	5(1)	-	3(2)	1(1)		
5083	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5086	Dhag char	India	5(1)	-	3(2)	1(1)		
5084	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5087	Dhag char	India	5(1)	-	3(2)	1(1)		
5085	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5088	Dhag char	India	5(1)	-	3(2)	1(1)		
5086	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5089	Dhag char	India	5(1)	-	3(2)	1(1)		
5087	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5090	Dhag char	India	5(1)	-	3(2)	1(1)		
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5089	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5092	Dhag char	India	5(1)	-	3(2)	1(1)		
5090	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5093	Dhag char	India	5(1)	-	3(2)	1(1)		
5091	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5094	Dhag char	India	5(1)	-	3(2)	1(1)		
5092	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5095	Dhag char	India	5(1)	-	3(2)	1(1)		
5093	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5096	Dhag char	India	5(1)	-	3(2)	1(1)		
5094	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5097	Dhag char	India	5(1)	-	3(2)	1(1)		
5095	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5098	Dhag char	India	5(1)	-	3(2)	1(1)		
5096	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5099	Dhag char	India	5(1)	-	3(2)	1(1)		
5097	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5100	Dhag char	India	5(1)	-	3(2)	1(1)		
5098	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5101	Dhag char	India	5(1)	-	3(2)	1(1)		
5099	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5102	Dhag char	India	5(1)	-	3(2)	1(1)		
5100	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5103	Dhag char	India	5(1)	-	3(2)	1(1)		
5101	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5104	Dhag char	India	5(1)	-	3(2)	1(1)		
5102	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5105	Dhag char	India	5(1)	-	3(2)	1(1)		
5103	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5106	Dhag char	India	5(1)	-	3(2)	1(1)		
5104	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5107	Dhag char	India	5(1)	-	3(2)	1(1)		
5105	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5108	Dhag char	India	5(1)	-	3(2)	1(1)		
5106	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5109	Dhag char	India	5(1)	-	3(2)	1(1)		
5107	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5110	Dhag char	India	5(1)	-	3(2)	1(1)		
5108	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5111	Dhag char	India	5(1)	-	3(2)	1(1)		
5109	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5112	Dhag char	India	5(1)	-	3(2)	1(1)		
5110	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5113	Dhag char	India	5(1)	-	3(2)	1(1)		
5111	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5114	Dhag char	India	5(1)	-	3(2)	1(1)		
5112	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5115	Dhag char	India	5(1)	-	3(2)	1(1)		
5113	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5116	Dhag char	India	5(1)	-	3(2)	1(1)		
5114	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5117	Dhag char	India	5(1)	-	3(2)	1(1)		
5115	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5118	Dhag char	India	5(1)	-	3(2)	1(1)		
5116	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5119	Dhag char	India	5(1)	-	3(2)	1(1)		
5117	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5120	Dhag char	India	5(1)	-	3(2)	1(1)		
5118	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5121	Dhag char	India	5(1)	-	3(2)	1(1)		
5119	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5122	Dhag char	India	5(1)	-	3(2)	1(1)		
5120	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5123	Dhag char	India	5(1)	-	3(2)	1(1)		
5121	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5124	Dhag char	India	5(1)	-	3(2)	1(1)		
5122	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5125	Dhag char	India	5(1)	-	3(2)	1(1)		
5123	Dhodra udmu	India	5(1)	-	3(2)	1(1)	5126	Dhag char	India	5(1)	-	3(2)	1(1)		
5124	Dhodra udmu	India	5(1)	-	3(2)	1									

HS No	Alternate accession identifier	Source country	SF					HS No	Alternate accession identifier	Source country	SF				
			R	PR	SR	MD	FR				R	PR	SR	MD	FR
6243	Chitama	India	5(1)	4(1)	4(2)	1(1)	6243	Siwaha	India	5(1)	-	3(2)	-	5(1)	
6251	Poo-dhan sharu lake	India	5(1)	-	3(1)	-	6244	Paitihama	India	5(1)	-	3(2)	1(1)	5(2)	
6254	Zowar	India	5(1)	-	3(2)	1(1)	6245	Paubi sakri	India	5(1)	-	3(2)	-	5(1)	
6255	Uok-tiwon	India	5(1)	-	3(2)	1(1)	6246	Paubi sakri	India	5(1)	-	3(2)	-	5(1)	
6257	Rajee	India	5(1)	-	3(2)	1(1)	6247	Jela nandyal	India	5(1)	-	3(2)	-	5(1)	
6258	Jowar	India	5(1)	-	3(2)	1(1)	6248	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6259	Kishnu jal-gula	India	5(1)	-	3(2)	1(1)	6249	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6260	Jowar zatta i mulda	India	5(1)	-	3(2)	1(1)	6250	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6262	Kava dhari unwar	India	5(1)	-	3(2)	1(1)	6251	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6263	Jowar bhajudi	India	5(1)	-	3(2)	1(1)	6252	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6264	Poo-dhan mahara	India	5(1)	-	3(2)	1(1)	6253	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6265	Jowar basapuri	India	5(1)	-	3(2)	1(1)	6254	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6266	Ganga namrupuri	India	5(1)	-	3(2)	1(1)	6255	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6267	Sanjivani vishw	India	5(1)	-	3(2)	1(1)	6256	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6268	Sala guneli	India	5(1)	-	3(2)	1(1)	6257	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6269	Paik bhoadi hatti	India	5(1)	-	3(2)	1(1)	6258	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6270	Jowar kofhahi	India	5(1)	-	3(2)	1(1)	6259	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6271	Chawan gungo	India	5(4)	4(2)	3(2)	3(1)	6260	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6272	Chawan simgoo	India	5(1)	-	3(2)	1(1)	6261	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6274	Bhanspur	India	5(1)	-	3(2)	1(1)	6262	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6275	Kangar chahi harul	India	5(1)	-	3(1)	-	6263	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6276	Jowar	India	5(1)	-	3(2)	-	6264	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6277	Kangar chahi bhanspur	India	5(1)	-	3(2)	-	6265	Jela nandyal	India	5(1)	-	3(1)	1(1)	5(1)	
6278	Jowar	India	5(1)	-	3(1)	-	6266	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6279	Jowar musketteri	India	5(1)	-	3(1)	-	6267	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6280	Jowar bidhawal	India	5(1)	-	3(2)	-	6268	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6281	Jowar bidhawal	India	5(1)	-	3(2)	-	6269	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6283	Jowar bidhawal	India	5(1)	-	3(1)	-	6270	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6284	Jowar aarya	India	5(1)	-	3(2)	-	6271	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6286	Jowar dhantuka	India	5(1)	-	3(2)	-	6272	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6288	Chava palm	India	5(1)	-	3(1)	-	6273	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6290	Jowar aridhawali	India	5(1)	-	3(2)	3(1)	6274	Jela nandyal	India	5(1)	-	3(1)	1(1)	5(1)	
6291	Jowar kal-harsawali	India	5(1)	-	3(2)	3(1)	6275	Jela nandyal	India	5(1)	-	3(1)	1(1)	5(1)	
6292	Paik-gul-harsawali	India	5(1)	-	3(2)	3(1)	6276	Jela nandyal	India	5(1)	-	3(1)	1(1)	5(1)	
6293	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6277	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6294	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6278	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6295	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6279	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6296	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6280	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6297	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6281	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6298	Paik-gul-harsawali	India	5(1)	-	3(1)	-	6282	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6299	Jowar ghansra	India	5(1)	-	3(2)	1(1)	6283	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6300	Jowar ghansra	India	5(1)	-	3(2)	1(1)	6284	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6301	Jowar ghansra	India	5(1)	-	3(2)	1(1)	6285	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6302	Jowar ghansra	India	5(1)	-	3(2)	1(1)	6286	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6303	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6287	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6304	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6288	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6305	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6289	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6306	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6290	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6307	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6291	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6308	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6292	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6309	Jowar bhadar	India	5(1)	-	3(2)	1(1)	6293	Jela nandyal	India	5(1)	-	3(2)	1(1)	5(1)	
6310	Mahua	India	5(1)	-	4(1)	-	6294	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6311	Mahua	India	5(1)	-	3(2)	3(1)	6295	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6312	Chitwanpur	India	5(1)	-	3(2)	1(1)	6296	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6313	Chitwanpur	India	5(1)	-	3(2)	1(1)	6297	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6314	Chitwa	India	5(1)	-	3(1)	-	6298	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6315	Chitwa	India	5(1)	-	3(1)	-	6299	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6316	Bhansa	India	5(1)	-	3(1)	-	6300	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6317	Bhansa	India	5(1)	-	3(1)	-	6301	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6318	Bhansa	India	5(1)	-	3(1)	-	6302	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6319	Bhansa	India	5(1)	-	3(1)	-	6303	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6320	Bhansa	India	5(1)	-	3(1)	-	6304	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6321	Bhansa	India	5(1)	-	3(1)	-	6305	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6322	Bhansa	India	5(1)	-	3(1)	-	6306	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6323	Maharashtra	India	5(1)	-	3(2)	1(1)	6307	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6324	Alia dhar gungap	India	5(1)	-	3(1)	-	6308	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6325	Alia dhar gungap	India	5(1)	-	3(2)	1(1)	6309	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6326	Pali	India	5(1)	-	3(2)	1(1)	6310	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6327	Pali	India	5(1)	-	3(2)	1(1)	6311	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6328	Coimbatore dhan	India	5(1)	-	3(2)	1(1)	6312	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6329	Kandhara	India	5(1)	-	3(1)	-	6313	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6330	Kandhara	India	5(1)	-	3(1)	-	6314	Jowar varahi gungap	India	5(1)	-	3(2)	1(1)	5(1)	
6331	Gari gungap	India	5(1)	-	3(1)	-	6315	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6332	Pali gungap	India	5(1)	-	3(1)	-	6316	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6333	Pali gungap	India	5(1)	-	3(2)	1(1)	6317	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6334	Pali gungap	India	5(1)	-	3(2)	1(1)	6318	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6335	Pali gungap	India	5(1)	-	3(1)	-	6319	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6336	Jyotir	India	5(1)	-	3(1)	-	6320	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6337	Chitwanpur	India	5(1)	-	3(1)	-	6321	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6338	Pali gungap	India	5(1)	-	3(1)	-	6322	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6339	Rajee	India	5(1)	-	3(1)	-	6323	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6341	Bhansi khatol	India	5(1)	-	3(1)	-	6324	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	
6342	Deg (jowar khatol)	India	5(1)	-	3(1)	-	6325	Shenoli-4-5	India	5(1)	-	3(2)	1(1)	5(1)	

IS No	Alternative accession identifier	Source country	SF				MR		IR No	Alternative accession identifier	Source country	SF				MR		IR No
			R	PK	SH	IN	JR	DR				R	PK	SH	IN	JR	DR	
7020	Festuca muscoides	Sudan	5(2)		4(2)	1(1)		7117	SBI 110	Central Africa	5(1)		4(2)	1(1)				
7021	Festuca muscoides	Sudan	4(2)		4(2)	1(1)		7118	SBI 111	Central Africa	5(2)	4(2)	3(2)		5(1)			
7022	Festuca muscoides	Sudan	4(2)		4(2)	1(1)	5(1)	7119	SBI 112	Central Africa	5(1)		3(2)		5(1)			
7023	Festuca muscoides	Sudan	4(2)		4(2)	1(1)	5(1)	7120	SBI 105	Central Africa	5(1)		3(2)		5(1)			
7024	Festuca muscoides	Sudan	4(2)		4(2)	1(1)	5(1)	7121	SBI 115	Central Africa	5(1)		3(2)		5(1)			
7025	Festuca muscoides	Sudan	5(1)		4(2)	1(1)	4(2)	7122	SBI 178	Central Africa	5(2)		3(2)		5(1)	5(2)		
7026	Festuca muscoides	Sudan	5(2)		4(2)	1(1)	5(1)	7124	Malurusus yowisi	Senegal	5(2)		3(1)		4(2)	5(2)		
7027	Festuca muscoides	Sudan	5(2)		4(2)	1(1)	5(1)	7125	Merops white	Rwanda	5(1)		3(1)		5(1)			
7028	Festuca muscoides	Sudan	5(1)		4(2)	1(1)	5(1)	7126	Cypripis	Cyprus	5(1)		3(1)		5(1)			
7029	Unknown	Sudan	5(1)	4(1)	3(2)	1(1)	4(2)	7127	Wad frag	Philippine	5(1)		3(2)	1(1)				
7030	Unknown	Sudan	5(2)		4(2)	1(1)	5(1)	7320	Unknown	Unknown	5(1)		3(1)		5(1)	4(1)		
7031	Wad yaha bull 1	Sudan	5(2)		4(2)	1(1)	5(1)	7331	Kumbulu	Uganda	5(1)		3(1)		5(1)			
7032	Wad yaha bull 2	Sudan	4(2)		3(2)	1(1)	5(1)	7332	L 38	Uganda	5(2)	3(1)	4(2)					
7033	Wad yaha bull 3	Sudan	4(2)		3(2)	1(1)	5(1)	7333	L 37	Uganda	5(1)		3(2)		4(1)			
7034	Wad yaha bull 4	Sudan	4(1)	4(1)	3(2)	1(1)	5(1)	7334	Uganda 1	Uganda	5(1)		3(2)		4(1)			
7035	Wad yaha bull 5	Sudan	4(1)		3(1)		5(1)	7335	L 6	Uganda	5(1)		3(2)		4(1)			
7036	Wad yaha bull 6	Sudan	4(1)		3(1)		5(1)	7336	Miraya	Uganda	5(1)		3(2)	1(1)				
7037	Wad yaha bull 7	Sudan	4(1)		3(1)		5(1)	7337	Uganda 2	Uganda	5(1)		3(1)					
7038	Mughab	Sudan	4(1)	5(1)	4(2)	1(1)	3(2)	7338	L 47	Uganda	5(1)		3(2)		4(1)			
7039	Uganda	Sudan	5(1)	5(1)	4(2)	1(1)	3(1)	7339	L 40	Uganda	5(1)		3(2)		4(1)			
7040	Wad yaha	Sudan	5(2)		4(2)	1(1)	5(1)	7340	L 26	Uganda	5(1)		3(2)	1(1)				
7041	Mughab	Sudan	5(2)		4(2)	1(1)	5(1)	7341	L 41	Uganda	5(1)		3(1)		5(1)			
7042	Hahana	Sudan	4(2)		4(2)	1(1)		7342	L 38	Uganda	5(2)		3(1)		5(1)			
7043	Abu dyana	Sudan	4(2)		3(2)	1(1)	5(1)	7343	US 21	Uganda	5(1)		3(2)		5(1)			
7044	Wad ab	Sudan	5(1)	4(1)	3(2)	1(1)	5(1)	7344	US 9	Uganda	5(1)	4(1)	3(1)		5(1)	5(1)		
7045	Garben el hamam	Sudan	4(2)		3(2)	1(1)	5(1)	7345	US 8	Uganda	5(1)		3(2)		5(1)			
7046	Karamic rd	Sudan	4(2)		3(2)	1(1)		7346	US 6	Uganda	5(1)		3(2)		5(1)			
7047	Yama wahwa	Sudan	4(2)		3(2)	1(1)		7347	US 10	Uganda	5(1)		3(2)	1(1)				
7048	Festuca dhumi	Sudan	5(1)	5(1)	3(2)	1(1)	4(2)	7348	Kaua	Kenya	5(2)		3(1)		5(1)			
7049	Festuca dhumi	Sudan	5(2)		3(2)	1(1)	5(1)	7349	Mama 20	Kenya	5(2)		1(1)		5(1)			
7050	Wad yaha	Sudan	5(2)		3(2)	1(1)		7350	Kuvuzeni 1	Kenya	5(2)		2(1)		5(1)	5(1)		
7051	Tumak shadhi	Sudan	5(2)	3(1)	3(2)	1(1)		7351	Mama	Kenya	5(2)		2(1)		5(1)			
7052	Abu dyana white	Sudan	5(1)		4(2)	1(1)		7352	UT 84	Zaire	5(2)	5(1)	3(1)		5(1)			
7053	Festuca dhumi 2	Sudan	4(1)		3(2)	1(1)		7353	UT 81	Zaire	5(1)		3(2)		5(1)			
7054	Uganda 2	Sudan	5(2)		3(2)	1(1)		7354	UT 81 2	Zaire	5(1)		3(1)		5(1)			
7055	Limn. distal	Sudan	5(2)		3(2)	1(1)	5(1)	7355	Limn. distal	Zimbabwe	5(1)		3(1)		5(1)			
7056	Abu dyana	Sudan	5(2)		3(1)		5(1)	7356	Kalafiki	Zimbabwe	5(1)		3(1)		5(1)			
7057	SBI 15	Sudan	5(2)	3(1)	3(2)	1(1)	5(1)	7357	Kamuzoni 2	Zimbabwe	5(1)		3(2)		5(1)			
7058	Hahana	Sudan	4(2)	4(1)	3(2)	1(1)	5(1)	7358	Chirwa	Zimbabwe	5(1)		3(2)	1(1)				
7059	AT 12	Sudan	4(2)	3(1)	3(2)	1(1)	5(1)	7359	Patani 2	South Africa	5(1)		3(1)		5(1)			
7060	SBI 100	Sudan	5(2)	5(1)	4(2)	1(1)		7360	Milchwood mountain	South Africa	5(1)		3(1)		5(1)			
7061	Adde 11	Sudan	4(2)		3(2)	1(1)		7361	Pulch longuau	South Africa	5(1)		3(2)	1(1)				
7062	Chella sola	Sudan	4(2)		3(2)	1(1)		7362	Manganya	Ghana	5(1)		3(2)	1(1)				
7063	Makri	Sudan	4(2)		3(2)	1(1)		7363	Befko	Ghana	5(1)		3(2)	1(1)				
7064	Kir	Sudan	4(2)		3(2)	1(1)	5(1)	7364	Mamren	Ghana	5(1)		3(2)	1(1)				
7065	SBI 22	Sudan	4(2)	4(1)	3(2)	1(1)	5(1)	7365	Chama	Ghana	5(1)		3(2)	1(1)				
7066	SBI 147	Sudan	4(2)		3(2)	1(1)		7366	Nuanetsi	Ghana	5(1)		3(2)	1(1)				
7067	UT 69	Sudan	5(2)		3(1)	5(1)		7367	Am. lag. d. ch. lag. lag. lag.	Chad	5(1)		3(2)	1(1)	5(1)			
7068	Lysoph	Sudan	5(2)		3(1)	5(1)		7368	Kouman ssp.	Chad	5(2)		3(2)	1(1)				
7069	Festuca muscoides	Sudan	5(2)	4(1)	3(2)	1(1)	4(2)	7369	Kouman dist. red wh.	Chad	5(2)		3(2)					
7070	A. d. d. ab. silv.	Sudan	4(2)		3(2)	1(1)		7370	Kaoum	Chad	5(2)		3(2)	1(1)				
7071	Early falga	Sudan	4(2)		3(2)	1(1)		7371	Aw. l. n. p. m.	Chad	5(2)		3(2)	1(1)				
7072	SBI 125	Central Africa	5(1)		3(2)	1(1)		7372	Mpauhihi	Tanzania	5(1)		3(2)	1(1)				
7073	SBI 2A	Central Africa	5(1)	5(1)	4(2)			7373	Thuba kush	Tanzania	5(1)		3(2)		5(1)			
7074	SBI 41 A	Central Africa	5(1)		4(2)		5(1)	7374	Mama red	Tanzania	5(1)		3(2)	1(1)				
7075	SBI 40	Central Africa	5(1)		4(2)		4(1)	7375	NS 5	Madagascar	5(1)		3(2)		5(1)			
7076	SBI 194	Central Africa	5(1)		4(2)		4(1)	7376	NS 4	Madagascar	5(1)		3(2)		5(1)			
7077	SBI 151 A	Central Africa	5(1)		4(2)		5(1)	7377	NS 5	Madagascar	5(1)		3(2)		5(1)			
7078	SBI 20	Central Africa	5(2)	3(2)	4(1)		4(2)	7378	NS 2	Madagascar	5(1)	4(2)	3(2)		5(1)	5(1)		
7079	SBI 38	Central Africa	5(2)	4(1)	3(2)	1(1)	5(1)	7379	NS 2	Madagascar	5(1)		3(2)		5(1)			
7080	SBI 37	Central Africa	5(2)	3(2)	3(1)		4(2)	7380	NS 1	Madagascar	5(1)		3(2)		5(1)			
7081	SBI 151	Central Africa	5(2)		3(2)	1(1)		7381	NS 1	Madagascar	5(1)		3(2)		5(1)			
7082	SBI 7	Central Africa	5(1)		4(2)		5(1)	7382	DK HS U1	Kenya	5(1)		3(2)	1(1)				
7083	SBI 9	Central Africa	5(1)		3(2)	1(1)		7383	Dhava (1 A R. h. p. r.)	Rgypt	5(1)		3(2)	1(1)				
7084	SBI 6 A	Central Africa	5(2)		3(2)	1(1)		7384	T 50-97	Niger	5(2)		3(1)		4(1)			
7085	SBI 4K A	Central Africa	5(1)		3(2)	1(1)		7385	F. g. n. m. r.	Niger	5(2)		3(2)	1(1)				
7086	SBI 5	Central Africa	5(1)		3(2)	1(1)	4(2)	7386	T 50-5	Niger	5(2)		3(1)		5(1)	4(1)		
7087	SBI 106	Central Africa	5(1)		3(2)	1(1)		7387	T 50-71	Niger	5(2)		3(2)	1(1)				
7088	SBI 133	Central Africa	5(1)		3(2)	1(1)		7388	Trilobis	Niger	4(2)		3(2)		5(1)			
7089	SBI 108	Central Africa	5(1)		3(2)	1(1)		7389	F. m. s. M. l. w.	Nigeria	4(1)	3(1)	3(2)	1(1)				
7090	SBI 26	Central Africa	5(1)		3(1)		4(2)	7390	Challa 11 jamaika	Nigeria	5(2)		3(2)		5(1)			
7091	SBI 26	Central Africa	5(1)		3(1)		4(2)	7391	Nanohda latense	Nigeria	4(1)	3(2)	3(2)		4(2)	4(2)		
7092	SBI 48 B	Central Africa	5(1)		3(1)		4(2)	7392	A. m. h. d. k. d. k.	Nigeria	4(2)		3(2)	1(1)				
7093	SBI 1	Central Africa	5(1)		3(1)		4(2)	7393	A. m. h. d. k. d. k.	Nigeria	4(1)	3(1)	3(2)	1(1)				
7094	SBI 321 B	Central Africa	5(1)		3(2)	1(1)		7394	A. m. h. d. k. d. k.	Nigeria	4(2)		3(2)	1(1)				
7095	SBI 43	Central Africa	4(2)	4(1)	3(1)			7395	Kaffi ya doka	Nigeria	4(2)	4(1)	4(1)		5(1)	5(1)		
7096	SBI 128	Central Africa	5(1)		3(2)	1(1)	3(1)	7396	BA 28 (Dava)	Nigeria	4(2)	3(2)	4(2)		5(1)	5(1)		
7097	SBI 41 B	Central Africa	5(1)		3(1)		3(1)	7397	Begani com. ex. lam.	Nigeria	5(2)		3(1)		5(1)	5(1)		
7098	SBI 119	Central Africa	5(1)		3(2)	1(1)		7398	BA 24	Nigeria	4(2)		3(1)		5(2)	5(1)		
7099	SBI 126	Central Africa	5(1)		3(2)	1(1)		7399	Unknown	Nigeria	4(2)		3(1)		4(2)	4(1)		

IS No	Alternate accession identifier	Source country	SP					MS No					Alternate accession identifier	Source country	SP					MS No				
			R	PR	EMIS	FR	MD	IR	IS No	R	PR	EMIS			FR	MD	IR	R	PR	EMIS	FR	MD	IR	
7201	ZA 34	Nigeria	4(2)	-	3(2)	1(1)	-	7294	Adamu	Nigeria	4(2)	-	3(2)	1(1)	-	7295	Adamu	Nigeria	4(2)	-	3(2)	1(1)	-	
7202	Yam lamia	Nigeria	4(2)	-	3(2)	1(1)	-	7296	Farm Jowo	Nigeria	4(2)	-	3(2)	1(1)	-	7297	Farm Jowo	Nigeria	4(2)	-	3(2)	1(1)	-	
7203	SO 34	Nigeria	4(2)	-	3(2)	1(1)	-	7298	Kumbi jagare	Nigeria	4(2)	-	3(2)	1(1)	-	7299	Kumbi jagare	Nigeria	4(2)	-	3(2)	1(1)	-	
7206	SO 72	Nigeria	4(2)	-	3(2)	1(1)	-	7294	Jigire	Nigeria	4(2)	-	3(2)	1(1)	-	7294	Jigire	Nigeria	4(2)	-	3(2)	1(1)	-	
7207	IN 11	Nigeria	4(2)	-	3(2)	1(1)	-	7296	Kudutu (yagare)	Nigeria	4(2)	-	3(2)	1(1)	-	7296	Kudutu (yagare)	Nigeria	4(2)	-	3(2)	1(1)	-	
7208	VI 450 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7297	Farm yungu	Nigeria	4(2)	-	3(2)	1(1)	-	7297	Farm yungu	Nigeria	4(2)	-	3(2)	1(1)	-	
7209	VI 540 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7298	Yayo	Nigeria	4(2)	-	3(2)	1(1)	-	7298	Yayo	Nigeria	4(2)	-	3(2)	1(1)	-	
7210	VI 930 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7300	Uru (yagare)	Nigeria	4(2)	-	3(2)	1(1)	-	7300	Uru (yagare)	Nigeria	4(2)	-	3(2)	1(1)	-	
7211	VI 850 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7301	Chukulari	Nigeria	4(2)	-	3(2)	1(1)	-	7301	Chukulari	Nigeria	4(2)	-	3(2)	1(1)	-	
7212	VI 740 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7302	Omgu	Nigeria	4(2)	-	3(2)	1(1)	-	7302	Omgu	Nigeria	4(2)	-	3(2)	1(1)	-	
7213	VI 550 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7303	Jama	Nigeria	4(2)	-	3(2)	1(1)	-	7303	Jama	Nigeria	4(2)	-	3(2)	1(1)	-	
7214	VI 340 Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7304	Samual	Nigeria	4(2)	-	3(2)	1(1)	-	7304	Samual	Nigeria	4(2)	-	3(2)	1(1)	-	
7215	Ym Laura Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7305	Ngala	Nigeria	4(2)	-	3(2)	1(1)	-	7305	Ngala	Nigeria	4(2)	-	3(2)	1(1)	-	
7216	Shomulim Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7309	Ligande (Fangare)	Nigeria	4(2)	-	3(2)	1(1)	-	7309	Ligande (Fangare)	Nigeria	4(2)	-	3(2)	1(1)	-	
7217	Okadiri wawan Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7306	Ngura (Fangare)	Nigeria	4(2)	-	3(2)	1(1)	-	7306	Ngura (Fangare)	Nigeria	4(2)	-	3(2)	1(1)	-	
7218	Micron wawan Ex. Yola	Nigeria	4(2)	-	3(2)	1(1)	-	7309	Fira fara	Nigeria	4(2)	-	3(2)	1(1)	-	7309	Fira fara	Nigeria	4(2)	-	3(2)	1(1)	-	
7219	Yar gumbe ex. kare	Nigeria	4(2)	-	3(2)	1(1)	-	7310	Fira fara	Nigeria	4(2)	-	3(2)	1(1)	-	7310	Fira fara	Nigeria	4(2)	-	3(2)	1(1)	-	
7220	Chukulari	Nigeria	4(2)	-	3(2)	1(1)	-	7311	Jama	Nigeria	4(2)	-	3(2)	1(1)	-	7311	Jama	Nigeria	4(2)	-	3(2)	1(1)	-	
7221	Mare	Nigeria	4(2)	-	3(2)	1(1)	-	7312	Lagare	Nigeria	4(2)	-	3(2)	1(1)	-	7312	Lagare	Nigeria	4(2)	-	3(2)	1(1)	-	
7222	Ngol	Nigeria	4(2)	-	3(2)	1(1)	-	7313	More kare	Nigeria	4(2)	-	3(2)	1(1)	-	7313	More kare	Nigeria	4(2)	-	3(2)	1(1)	-	
7223	Kumzi wawan	Nigeria	4(2)	-	3(2)	1(1)	-	7314	Mare	Nigeria	4(2)	-	3(2)	1(1)	-	7314	Mare	Nigeria	4(2)	-	3(2)	1(1)	-	
7224	Yar kare	Nigeria	4(2)	-	3(2)	1(1)	-	7315	Shawinli	Nigeria	4(2)	-	3(2)	1(1)	-	7315	Shawinli	Nigeria	4(2)	-	3(2)	1(1)	-	
7225	Farm kama	Nigeria	4(2)	-	3(2)	1(1)	-	7316	Shawinli	Nigeria	4(2)	-	3(2)	1(1)	-	7316	Shawinli	Nigeria	4(2)	-	3(2)	1(1)	-	
7226	Bruchum	Nigeria	4(2)	-	3(2)	1(1)	-	7317	Kade kine	Nigeria	4(2)	-	3(2)	1(1)	-	7317	Kade kine	Nigeria	4(2)	-	3(2)	1(1)	-	
7227	Farmu - hite glumes	Nigeria	4(2)	-	3(2)	1(1)	-	7318	Kade	Nigeria	4(2)	-	3(2)	1(1)	-	7318	Kade	Nigeria	4(2)	-	3(2)	1(1)	-	
7228	Jazari	Nigeria	4(2)	-	3(2)	1(1)	-	7319	Lakuse dai	Nigeria	4(2)	-	3(2)	1(1)	-	7319	Lakuse dai	Nigeria	4(2)	-	3(2)	1(1)	-	
7229	H - standard	Nigeria	4(2)	-	3(2)	1(1)	-	7320	Abigara	Nigeria	4(2)	-	3(2)	1(1)	-	7320	Abigara	Nigeria	4(2)	-	3(2)	1(1)	-	
7230	Mamboru	Nigeria	4(2)	-	3(2)	1(1)	-	7321	Iru Lira	Nigeria	4(2)	-	3(2)	1(1)	-	7321	Iru Lira	Nigeria	4(2)	-	3(2)	1(1)	-	
7231	Yalaga	Nigeria	4(2)	-	3(2)	1(1)	-	7322	Wah kama lakite	Nigeria	4(2)	-	3(2)	1(1)	-	7322	Wah kama lakite	Nigeria	4(2)	-	3(2)	1(1)	-	
7232	Abawa	Nigeria	4(2)	-	3(2)	1(1)	-	7323	Wawa dia	Nigeria	4(2)	-	3(2)	1(1)	-	7323	Wawa dia	Nigeria	4(2)	-	3(2)	1(1)	-	
7233	Fara	Nigeria	4(2)	-	3(2)	1(1)	-	7324	Danhu hite	Nigeria	4(2)	-	3(2)	1(1)	-	7324	Danhu hite	Nigeria	4(2)	-	3(2)	1(1)	-	
7234	Karim	Nigeria	4(2)	-	3(2)	1(1)	-	7325	Lakuse dai	Nigeria	4(2)	-	3(2)	1(1)	-	7325	Lakuse dai	Nigeria	4(2)	-	3(2)	1(1)	-	
7235	Lakwona	Nigeria	4(2)	-	3(2)	1(1)	-	7326	Jeri di gero	Nigeria	4(2)	-	3(2)	1(1)	-	7326	Jeri di gero	Nigeria	4(2)	-	3(2)	1(1)	-	
7236	Bruchum white	Nigeria	4(2)	-	3(2)	1(1)	-	7327	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	7327	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	
7237	Baba	Nigeria	4(2)	-	3(2)	1(1)	-	7328	Perhama	Nigeria	4(2)	-	3(2)	1(1)	-	7328	Perhama	Nigeria	4(2)	-	3(2)	1(1)	-	
7238	Baba	Nigeria	4(2)	-	3(2)	1(1)	-	7329	Giawole	Nigeria	4(2)	-	3(2)	1(1)	-	7329	Giawole	Nigeria	4(2)	-	3(2)	1(1)	-	
7239	Baba Inpaya	Nigeria	4(2)	-	3(2)	1(1)	-	7330	Giawawa	Nigeria	4(2)	-	3(2)	1(1)	-	7330	Giawawa	Nigeria	4(2)	-	3(2)	1(1)	-	
7240	Chimuka	Nigeria	4(2)	-	3(2)	1(1)	-	7331	Walawa	Nigeria	4(2)	-	3(2)	1(1)	-	7331	Walawa	Nigeria	4(2)	-	3(2)	1(1)	-	
7241	Mamboru ex. kare	Nigeria	4(2)	-	3(2)	1(1)	-	7332	Baja	Nigeria	4(2)	-	3(2)	1(1)	-	7332	Baja	Nigeria	4(2)	-	3(2)	1(1)	-	
7242	Manakwa tumbara	Nigeria	4(2)	-	3(2)	1(1)	-	7333	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	7333	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	
7243	Songham 23	Nigeria	4(2)	-	3(2)	1(1)	-	7334	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	7334	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	
7244	Manakwa waganu	Nigeria	4(2)	-	3(2)	1(1)	-	7335	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	7335	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	
7245	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	7336	Dzoti	Nigeria	4(2)	-	3(2)	1(1)	-	7336	Dzoti	Nigeria	4(2)	-	3(2)	1(1)	-	
7246	Akuki	Nigeria	4(2)	-	3(2)	1(1)	-	7337	Samwace	Nigeria	4(2)	-	3(2)	1(1)	-	7337	Samwace	Nigeria	4(2)	-	3(2)	1(1)	-	
7247	Omka	Nigeria	4(2)	-	3(2)	1(1)	-	7338	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	7338	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	
7248	Agami	Nigeria	4(2)	-	3(2)	1(1)	-	7339	Abaka gema	Nigeria	4(2)	-	3(2)	1(1)	-	7339	Abaka gema	Nigeria	4(2)	-	3(2)	1(1)	-	
7249	Farmu kare panick	Nigeria	4(2)	-	3(2)	1(1)	-	7340	Abakagere	Nigeria	4(2)	-	3(2)	1(1)	-	7340	Abakagere	Nigeria	4(2)	-	3(2)	1(1)	-	
7250	Quev aadi sorghum	Nigeria	4(2)	-	3(2)	1(1)	-	7341	Karam	Nigeria	4(2)	-	3(2)	1(1)	-	7341	Karam	Nigeria	4(2)	-	3(2)	1(1)	-	
7251	M 596 Faramita	Nigeria	4(2)	-	3(2)	1(1)	-	7342	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	7342	Fara fara	Nigeria	4(2)	-	3(2)	1(1)	-	
7252	M 4	Nigeria	4(2)	-	3(2)	1(1)	-	7343	Karam	Nigeria	4(2)	-	3(2)	1(1)	-	7343	Karam	Nigeria	4(2)	-	3(2)	1(1)	-	
7253	M 597	Nigeria	4(2)	-	3(2)	1(1)	-	7344	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	7344	Ok lakite buda	Nigeria	4(2)	-	3(2)	1(1)	-	
7254	M 1	Nigeria	4(2)	-	3(2)	1(1)	-	7345	Yalaw	Nigeria	4(2)	-	3(2)	1(1)	-	7345	Yalaw	Nigeria	4(2)	-	3(2)	1(1)	-	
7255	M 598	Nigeria	4(2)	-	3(2)	1(1)	-	7346	Pelleli	Nigeria	4(2)	-	3(2)	1(1)	-	7346	Pelleli	Nigeria	4(2)	-	3(2)	1(1)	-	
7256	KI 631	Nigeria	4(2)	-	3(2)	1(1)	-	7348	Karu Kwachika	Nigeria	4(2)	-	3(2)	1(1)	-	7348	Karu Kwachika	Nigeria	4(2)	-	3(2)	1(1)	-	
7257	M 602	Nigeria	4(2)	-	3(2)	1(1)	-	7349	Gwawo lical	Nigeria	4(2)	-	3(2)	1(1)	-	7349	Gwawo lical	Nigeria	4(2)	-	3(2)	1(1)	-	
7258	Perh kowena	Nigeria	4(2)	-	3(2)	1(1)	-	7350	Abakal	Nigeria	4(2)	-	3(2)	1(1)	-	7350	Abakal	Nigeria	4(2)	-	3(2)	1(1)	-	
7259	M 595	Nigeria	4(2)	-	3(2)	1(1)	-	7352	Munze	Nigeria	4(2)	-	3(2)	1(1)	-	7352	Munze	Nigeria	4(2)	-	3(2)	1(1)	-	
7260	M 596	Nigeria	4(2)	-	3(2)	1(1)	-	7353	Maka (yagare type)	Nigeria	4(2)	-	3(2)	1(1)	-	7353	Maka (yagare type)	Nigeria	4(2)	-	3(2)	1(1)	-	
7261	M 592	Nigeria	4(2)	-	3(2)	1(1)	-	7354	Nyom	Nigeria	4(2)	-	3(2)	1(1)	-	7354	Nyom	Nigeria	4(2)	-	3(2)	1(1)	-	
7262	M 591	Nigeria	4(2)	-	3(2)	1(1)	-																	

IS No	Alamiah al-asmuun Alamiah	Source country	SI				MI				IS No	Alamiah al-asmuun Alamiah	Source country	SF				MD	IR
			R	PR	DHS	FR	R	PR	DHS	FR				R	PR	DHS	FR		
7370	Shara khafri	Nigeria	5(2)	1(1)	4(3)	0(1)	5(1)	5(1)	7366	Oku baba	Nigeria	4(2)	-	1(1)	1(1)	-	-		
7380	Fara farfa	Nigeria	5(2)	-	1(2)	1(1)	-	7367	Oku baba	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7381	Jan farfa	Nigeria	5(2)	-	1(3)	1(1)	-	7368	Oku baba	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7382	Kutulu	Nigeria	4(2)	-	1(2)	1(1)	-	7369	Kh 4	Nigeria	5(2)	-	1(1)	1(1)	5(1)	-			
7383	Idon luwudu	Nigeria	4(2)	-	1(2)	1(1)	-	7370	Kh 5	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7384	Kuak	Nigeria	5(2)	-	1(1)	1(1)	-	7371	Kh 6	Nigeria	5(2)	4(3)	3(2)	1(1)	-	-			
7385	Fara fara	Nigeria	5(2)	-	1(1)	1(2)	-	7372	Bka	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7386	Dasha	Nigeria	5(2)	-	1(1)	1(2)	-	7373	Oku or oku baba	Nigeria	4(2)	-	1(1)	1(2)	-	-			
7387	Jan dawu	Nigeria	5(2)	-	1(1)	1(1)	-	7374	Oku or oku baba	Nigeria	4(2)	4(1)	4(2)	1(2)	5(1)	5(1)			
7388	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	7375	Oku baba	Nigeria	5(2)	-	1(2)	1(2)	-	-			
7389	Fara fara	Nigeria	5(2)	-	1(1)	1(1)	-	7376	Aksu/nyangu	Nigeria	5(2)	-	1(2)	1(1)	-	-			
7390	Kaeta	Nigeria	5(2)	-	1(1)	1(1)	-	7377	Rabe	Nigeria	4(2)	-	1(2)	1(1)	-	-			
7391	Maka jeda	Nigeria	5(2)	-	1(1)	1(1)	-	7378	Syi hoh	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7392	Jan dawu	Nigeria	4(2)	-	1(1)	1(1)	-	7379	Asi nba	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7393	Fara fara	Nigeria	5(2)	-	1(1)	1(1)	-	7380	Asi	Nigeria	4(2)	-	1(2)	1(1)	-	-			
7394	M adu	Nigeria	5(2)	-	2(1)	2(2)	-	7381	Oku	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7395	Tungale ungu	Nigeria	5(1)	-	-	-	-	7382	Chai	Nigeria	4(2)	-	-	-	-	-			
7397	Fara fara	Nigeria	5(2)	-	1(1)	1(1)	-	7383	Oku	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7398	Akuku	Nigeria	5(2)	-	1(1)	-	4(1) 2(1)	7384	Takarun	Nigeria	4(2)	-	-	-	-	-			
7399	Jan dawu	Nigeria	4(2)	-	2(1)	2(1)	5(1)	7385	Oku	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7400	Oku	Nigeria	4(2)	-	1(2)	1(1)	-	7386	Oku	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7401	Oku baba	Nigeria	4(2)	-	1(1)	1(1)	-	7387	Oku	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7402	Jan dawu	Nigeria	5(1)	-	4(2)	4(1)	-	7408	Yala	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7403	Gagara dawaki	Nigeria	4(2)	5(1)	1(1)	1(2)	-	7409	Takarun	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7404	Jan dawu	Nigeria	4(2)	-	1(1)	1(1)	5(2)	7409	Kau	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7405	Akuku	Nigeria	4(2)	-	1(1)	1(2)	-	7410	Hubadwa	Nigeria	5(2)	-	1(2)	1(1)	-	-			
7407	Fara fara	Nigeria	4(2)	-	1(1)	1(2)	-	7402	Hubi	Nigeria	4(2)	4(1)	1(1)	1(1)	-	-			
7408	Juwaa	Nigeria	5(2)	-	2(1)	2(1)	-	7403	Yanzuwa	Nigeria	5(2)	-	1(2)	1(1)	-	-			
7409	Ayungu	Nigeria	4(2)	-	1(2)	1(1)	-	7405	Kanabanda	Nigeria	5(1)	-	1(1)	1(1)	-	-			
7410	Mawa yan	Nigeria	4(1)	5(1)	1(1)	1(1)	-	7406	Laru	Nigeria	5(1)	-	1(1)	1(2)	-	-			
7411	Buguni	Nigeria	5(2)	-	1(1)	1(1)	-	7407	Fara fara	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7412	Kulu	Nigeria	5(2)	-	1(1)	1(1)	-	7408	Kau	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7413	Akuku	Nigeria	5(2)	-	1(1)	1(1)	-	7500	Hakumi farwa	Nigeria	5(2)	-	-	-	-	-			
7414	Akuku	Nigeria	5(2)	-	1(1)	1(1)	-	7501	Kara kunda	Nigeria	4(2)	-	-	-	-	-			
7415	Fara fara	Nigeria	4(2)	-	1(2)	2(1)	-	7502	Kura ya madani	Nigeria	5(1)	-	1(2)	1(1)	-	-			
7416	Gagara dawaki	Nigeria	5(1)	-	1(1)	1(1)	-	7503	Bukko	Nigeria	5(1)	5(1)	3(2)	1(1)	5(1)	5(1)			
7417	Ayungu	Nigeria	4(2)	-	1(1)	1(1)	-	7504	Fara fara	Nigeria	4(2)	-	1(2)	1(1)	-	-			
7418	Jan dawu	Nigeria	5(2)	-	1(1)	1(1)	-	7505	Aura	Nigeria	5(1)	-	1(1)	1(2)	-	-			
7419	Oku	Nigeria	5(2)	-	1(2)	1(1)	4(1) 2(1)	7506	Mabau	Nigeria	4(1)	-	1(1)	1(1)	-	-			
7420	Lvan	Nigeria	4(2)	-	1(5)	1(1)	1(1)	7507	Kuri	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7421	Bl 27	Nigeria	4(2)	-	1(2)	1(1)	-	7508	Kuri	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7422	Ahamfuka	Nigeria	4(2)	-	1(1)	1(1)	-	7509	Yan zaki	Nigeria	4(2)	-	1(2)	1(1)	-	-			
7423	Ku ku da shiriki	Nigeria	4(2)	-	1(1)	1(1)	-	7510	Kara fara	Nigeria	5(2)	-	1(1)	1(1)	5(1)	-			
7424	Gungu jha	Nigeria	4(2)	-	1(1)	1(1)	-	7512	Oku baba	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7425	Bama da shiriki	Nigeria	4(2)	-	1(1)	1(1)	3(1) 5(1)	7513	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7427	Abani naguri	Nigeria	4(2)	-	1(1)	2(1)	-	7514	Fara fara	Nigeria	4(2)	4(2)	4(2)	1(1)	-	-			
7428	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	7515	Zuwa zuwa	Nigeria	3(2)	-	2(1)	2(1)	-	-			
7429	Akuku	Nigeria	5(2)	-	1(1)	2(1)	4(2)	7516	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7430	Naguri	Nigeria	4(2)	-	1(1)	2(1)	-	7517	Fara fara	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7431	Dawa	Nigeria	4(2)	-	1(1)	2(1)	-	7518	Zuwa zuwa	Nigeria	5(1)	4(1)	1(2)	1(1)	-	-			
7432	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	7519	Fara fara	Nigeria	5(2)	-	1(2)	1(1)	-	-			
7433	Fara fara	Nigeria	4(2)	-	1(1)	1(2)	-	7520	Kuri kure	Nigeria	5(2)	-	1(1)	1(1)	5(2)	-			
7434	Baakaramba	Nigeria	5(2)	-	1(1)	1(2)	1(1)	7521	Mari	Nigeria	3(2)	-	1(2)	1(1)	-	-			
7435	K 3	Nigeria	4(2)	-	1(1)	1(1)	-	7522	Fara fara	Nigeria	5(1)	-	1(1)	1(1)	5(1)	5(1)			
7436	Baakaramba	Nigeria	4(2)	-	1(1)	1(1)	-	7524	Zuwa zuwa	Nigeria	5(1)	-	1(1)	1(1)	5(1)	5(1)			
7437	Kura taga	Nigeria	4(2)	-	1(1)	1(1)	-	7525	Kura	Nigeria	5(1)	-	1(1)	1(1)	-	-			
7438	Fara fara sar farka	Nigeria	4(2)	-	1(1)	1(1)	-	7526	Hunguwa daki	Nigeria	4(2)	-	2(1)	2(1)	-	-			
7439	Fara fara kaba	Nigeria	4(2)	-	1(1)	1(1)	-	7527	Hansa kasa	Nigeria	4(2)	-	-	-	-	-			
7440	Pindafa sar wari	Nigeria	4(2)	-	1(1)	1(1)	5(2) 5(2)	7528	Hansa wurin baka	Nigeria	4(1)	5(1)	3(2)	1(1)	5(1)	5(1)			
7441	Janyu	Nigeria	4(2)	5(1)	1(1)	-	-	7529	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7442	Jan dawu kaura	Nigeria	4(2)	-	1(1)	1(1)	-	7530	KO 53	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7443	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	7531	Yan gurki	Nigeria	4(2)	-	-	-	-	-			
7444	Janyu	Nigeria	4(2)	-	1(1)	1(1)	-	7533	KO 58	Nigeria	4(2)	-	1(2)	1(1)	5(1)	5(1)			
7445	Zuga	Nigeria	5(2)	-	1(1)	1(1)	-	7534	KO 58	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7446	Haararaba	Nigeria	4(2)	-	1(1)	1(1)	-	7535	Gado gado	Nigeria	4(1)	-	1(2)	1(1)	5(1)	5(1)			
7447	Naguri gwa	Nigeria	5(1)	-	1(1)	1(1)	-	7536	Fara fara	Nigeria	5(1)	4(1)	1(1)	1(1)	5(1)	5(1)			
7448	Mari dawun tri	Nigeria	5(1)	-	1(1)	1(1)	-	7537	NG 1	Nigeria	5(2)	-	2(1)	1(1)	-	-			
7451	Mari	Nigeria	4(2)	-	1(1)	1(1)	-	7538	PI 2	Nigeria	5(2)	-	1(1)	1(1)	-	-			
7452	Gyige kama	Nigeria	5(1)	-	1(1)	1(1)	-	7539	PI 3	Nigeria	5(1)	-	1(1)	1(1)	-	-			
7453	Fara fara	Nigeria	4(2)	-	1(2)	1(1)	-	7540	PI 4	Nigeria	5(1)	-	-	-	-	-			
7454	Zuwa zuwa	Nigeria	5(1)	-	1(1)	1(1)	4(2) 5(4)	7541	PI 5	Nigeria	4(1)	-	1(1)	1(1)	-	-			
7455	Kuma	Nigeria	4(2)	-	1(1)	1(1)	-	7542	Mari	Nigeria	5(2)	-	1(2)	1(1)	-	-			
7456	Fara fara	Nigeria	4(2)	-	1(1)	1(1)	-	7543	Jan dawu	Nigeria	5(1)	-	1(2)	1(1)	-	-			
7457	Gafan	Nigeria	5(1)	-	2(1)	2(1)	-	7544	Jan dawu	Nigeria	5(1)	-	1(1)	1(1)	-	-			
7458	Yanzuwa dawu	Nigeria	5(1)	-	1(1)	1(1)	-	7545	Fara fara	Nigeria	5(1)	-	1(1)	1(1)	-	-			
7459	Yal nichino	Nigeria	5(2)	-	1(1)	1(1)	-	7546	Jan dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7460	Yal niyaga	Nigeria	5(1)	-	1(1)	1(1)	-	7547	Fara fara	Nigeria	5(2)	-	1(2)	1(1)	5(1)	5(1)			
7461	Kura	Nigeria	5(1)	-	1(1)	1(1)	5(1)	7548	Jan dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7462	Huband	Nigeria	5(2)	-	1(2)	1(1)	-	7549	Gwari	Nigeria	4(2)	-	1(1)	1(2)	-	-			
7463	Thaka	Nigeria	4(2)	5(1)	1(1)	-	5(1) 5(1)	7550	Kunguwa daki	Nigeria	4(2)	-	1(1)	1(1)	-	-			
7464	Kate	Nigeria	5(2)	-	-	-	-	7551	Kura	Nigeria	4(2)	-	1(2)	1(1)	-	-			
7465	Yau ludi	Nigeria	4(2)	-	1(1)	1(1)	-	7552	Oku baba ganyan	Nigeria	3(2)	-	1(1)	1(1)	-	-			

IS No	Alternative accession Identifier	Source country	SF				SU		ML		HLS		IS No	Alternative accession Identifier	Source country	SF				SU		ML		HLS			
			R	PR	DRS	DR	DRS	DR	DRS	DR	DRS	DR				DRS	DR	DRS	DR	DRS	DR	DRS	DR				
7543	Bawili	Nigeria	4(2)	-	3(2)	1(1)	-	-	-	-	-	7635	Agbani	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	
7544	Fafan fagiri	Nigeria	4(2)	-	3(1)	1(1)	-	-	-	-	-	7636	Tasungu otung	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7555	Jam dawu	Nigeria	3(1)	-	2(1)	1(1)	-	-	-	-	-	7637	Messa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7556	Jam dawu	Nigeria	4(2)	-	4(1)	1(1)	-	-	-	-	-	7638	Kuryi kwo	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7557	Jumru hoba	Nigeria	4(2)	-	4(1)	1(1)	-	-	-	-	-	7639	Kari dangiri ni shukun	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	
7558	Chikwa chikwa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7640	Kuryi kwo	Nigeria	4(2)	-	-	-	-	-	-	-	-	-	-		
7559	Kiri	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7641	Chikwa chikwa	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	
7560	Kiyawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7642	Omoluwa kpana zuru	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7561	Bakori koma	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7644	Kuryi koma	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7562	PI 27	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7646	Lele	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7563	Dawulu	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7647	Ekwaturung	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7564	Agwasha	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7648	Gudu	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	
7565	Fam dawu	Nigeria	4(2)	5(1)	3(2)	1(1)	-	-	-	-	-	7649	NG 79	Nigeria	4(2)	-	-	-	-	-	-	-	-	-	-	-	
7566	Utawaha	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7650	hura	Nigeria	5(1)	-	5(1)	-	-	-	-	-	-	-	-	-	
7567	Fam faru	Nigeria	4(2)	-	-	-	-	-	-	-	-	7651	F'kuru kpanadukko	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7568	Utawaha	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7652	Kuryi kpana-hokun	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7569	PI 34	Nigeria	5(2)	-	2(2)	2(1)	-	-	-	-	-	7653	Ikadun	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7570	PI 35	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7654	Kuru Apiraduko	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	-	-	-	-	-	
7571	Eman-doko	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7655	Alomoo	Nigeria	5(2)	-	-	-	-	-	-	-	-	-	-	-	
7572	Kura	Nigeria	4(2)	-	2(1)	1(1)	-	-	-	-	-	7656	Kindak	Nigeria	5(2)	-	3(1)	1(1)	-	-	-	-	-	-	-	-	
7573	Ugaha	Nigeria	4(2)	4(1)	1(1)	1(1)	-	-	-	-	-	7657	Kushaku	Nigeria	5(2)	-	3(1)	-	-	-	-	-	-	-	-	-	
7574	Zazzaku	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7658	Kuryi zambe	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7575	Jam dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7659	Mamgi	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7576	Jam dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7660	Dandamu	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	-
7577	Fam bukukun	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7661	Dandamu kpanaduko	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7578	Fam dawu	Nigeria	3(1)	-	1(1)	1(1)	-	-	-	-	-	7662	Dandamu	Nigeria	4(2)	-	-	-	-	-	-	-	-	-	-	-	
7579	Jam bukukun	Nigeria	5(1)	-	3(1)	3(1)	4(1)	5(1)	-	-	-	7664	P'kuru bukungu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7580	Bakori dawu	Nigeria	4(2)	5(1)	4(1)	3(1)	5(1)	4(1)	-	-	-	7665	Obadungu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7581	Kura-manji wari	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7666	Kiri	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7582	Kingira dawu	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	-	-	7667	Kuryi bukun	Nigeria	4(2)	-	4(2)	-	-	-	-	-	-	-	-	-	-
7583	Zaba	Nigeria	4(2)	-	-	-	-	-	-	-	-	7668	K'puri	Nigeria	5(2)	-	4(1)	-	-	-	-	-	-	-	-	-	-
7584	Mah abirin dawu	Nigeria	4(2)	-	4(1)	-	-	-	-	-	-	7670	Kuryi bukungu	Nigeria	5(2)	-	3(2)	-	-	-	-	-	-	-	-	-	-
7585	Hiri dawu	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7671	Shun	Nigeria	5(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7586	Kura	Nigeria	4(2)	3(1)	1(1)	1(1)	-	-	-	-	-	7672	K'puri dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7587	Lalaha	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7673	Alingari	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7588	Jam kasa man fuka	Nigeria	5(2)	-	-	-	-	-	-	-	-	7674	Kuryi koma	Nigeria	5(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7589	Agwasha	Nigeria	5(1)	-	1(1)	1(1)	-	-	-	-	-	7675	Wangui dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7590	Aladawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7676	Bawutaha	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7591	Jama man haka	Nigeria	5(2)	-	3(2)	3(1)	-	-	-	-	-	7677	Fam faru	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7592	Kiyawa dawu	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	-	-	7678	K'puri	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7593	Fam dawu	Nigeria	4(2)	-	2(2)	1(1)	-	-	-	-	-	7680	K'puri	Nigeria	3(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7594	Wagala	Nigeria	6(1)	-	1(1)	1(1)	-	-	-	-	-	7681	Shun dawu	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7595	Jam dawu	Nigeria	3(2)	-	2(1)	1(1)	-	-	-	-	-	7682	Kagun shukun	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7596	Jam dawu	Nigeria	4(1)	-	4(2)	3(1)	-	-	-	-	-	7684	Jam dawu	Nigeria	3(2)	4(1)	2(1)	2(1)	-	-	-	-	-	-	-	-	-
7597	Jam agwasha	Nigeria	5(2)	-	3(2)	1(1)	-	-	-	-	-	7684	Kura	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	-	-	-	-	-	-
7598	Lalaha do lele	Nigeria	5(2)	-	3(1)	1(1)	-	-	-	-	-	7685	Rawlele	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7599	Utawaha	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	-	-	7686	Wiyungawun	Nigeria	5(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7600	K'puri bukungu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7687	Fam agwasha	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7601	K'puri bukungu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7688	F'kuru dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7602	Kuryi koma	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7689	Imulawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7603	Tawantungu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7690	Fam faru	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7604	Imdunaw'zhuo	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	-	-	7691	Duran zabo	Nigeria	4(2)	-	3(2)	3(2)	-	-	-	-	-	-	-	-	-
7605	Ghalayge	Nigeria	4(2)	-	-	-	-	-	-	-	-	7692	Gungu dawu	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	-
7606	Fuhamirabo	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7693	Bulu	Nigeria	4(2)	-	3(2)	2(1)	-	-	-	-	-	-	-	-	-
7607	Kuryi koma	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	7694	Jam dawu	Nigeria	4(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7608	K'puri raiye	Nigeria	4(2)	-	-	-	-	-	-	-	-	7695	K'puri	Nigeria	3(1)	-	3(2)	2(1)	-	-	-	-	-	-	-	-	
7609	Kuryi bukungu	Nigeria	5(1)	-	1(1)	1(1)	-	-	-	-	-	7696	K'puri	Nigeria	4(2)	-	5(1)	4(2)	3(1)	5(1)	-	-	-	-	-	-	-
7610	Dindunaw'zuru	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	-	-	7697	Ufuruwa Impeye	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	
7611	Dan dawu	Nigeria	4(2)	-	1(1)																						

IS No	Alapname accession identifier	Source country	SF					IS No	Aromatic accession identifier	Source country	SF					
			R	PR	DHS	LFS	MD				DR	DR	R	PR	DHS	LFS
7726	Platanus spina	Nigeria	4/25	-	1111	1111	-	7810	Pera fura	Nigeria	4/27	-	-	-	-	-
7727	Kroton bakula	Nigeria	4/25	-	1111	1111	-	7811	Hatani	Nigeria	4/25	-	2111	2111	-	-
7728	Thalictrum zulu	Nigeria	4/25	-	1111	1111	-	7812	Melastomaceae spina	Nigeria	4/22	-	1111	1111	-	-
7730	Parinari densa rose	Nigeria	4/24	-	1111	1111	-	7813	Zambesia	Nigeria	4/21	-	4/21	4/21	5111	5111
7730	Parinari densa rose	Nigeria	4/21	-	4/21	-	-	7814	Parinari densa rose	Nigeria	4/21	-	1111	1111	-	-
7731	Tigonius barbatifera	Nigeria	4/21	-	2111	2111	-	7815	Z.A. 108	Nigeria	4/22	4111	1111	1111	-	-
7732	Hancornia	Nigeria	4/21	-	1111	1111	-	7816	Hancornia	Nigeria	4/24	-	1111	1111	-	-
7733	Handbergi baya	Nigeria	4/21	-	1111	1111	-	7817	Albizia malabarica	Nigeria	4/21	-	4/21	4/21	-	-
7734	Thaunton kuru	Nigeria	4/21	-	1111	1111	-	7818	Valonea	Nigeria	4/21	-	3111	3111	-	-
7735	Schin sassa	Nigeria	4/21	-	1111	1111	-	7820	Morus mauritanica	Nigeria	4/21	-	4/21	4/21	-	-
7736	Endospermum	Nigeria	4/21	-	1111	1111	-	7821	Zinnia	Nigeria	4/21	-	-	-	-	-
7737	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7822	Eleusine indica	Nigeria	4/21	-	1111	1111	-	-
7738	Kurawati	Nigeria	4/21	-	1111	1111	-	7823	Passiflora foetida	Nigeria	4/21	-	1111	1111	-	-
7739	Z.A. 21	Nigeria	4/21	-	4111	4111	-	7824	Ficus spina	Nigeria	4/21	-	2111	2111	-	-
7740	Z.A. 25	Nigeria	4/21	-	1111	1111	-	7825	Z.A. 113	Nigeria	4/21	-	2111	2111	-	-
7741	Z.A. 26	Nigeria	4/21	-	1111	1111	-	7826	Z.A. 120	Nigeria	4/21	-	-	-	-	-
7742	Z.A. 26	Nigeria	4/21	-	1111	1111	-	7827	Z.A. 126	Nigeria	4/21	-	1111	1111	-	-
7743	Z.A. 27	Nigeria	4/21	-	1111	1111	-	7828	Z.A. 122	Nigeria	4/21	-	1111	1111	-	-
7744	Z.A. 28	Nigeria	4/21	-	1111	1111	-	7830	Z.A. 125	Nigeria	4/21	-	1111	1111	-	-
7745	Z.A. 29	Nigeria	4/21	-	1111	1111	-	7831	Z.A. 124	Nigeria	4/21	-	1111	1111	-	-
7746	Z.A. 30	Nigeria	4/21	-	1111	1111	-	7833	Z.A. 127	Nigeria	4/21	-	2111	2111	-	-
7747	Z.A. 31	Nigeria	4/21	-	1111	1111	-	7834	Bissac	Nigeria	4/21	-	2111	2111	-	-
7748	Jara jara	Nigeria	4/21	-	1111	1111	-	7835	Furcraea densa	Nigeria	4/21	-	1111	1111	-	-
7749	Jara jara	Nigeria	4/21	-	1111	1111	-	7836	Dryas acutata	Nigeria	4/21	-	1111	1111	-	-
7750	Waruga tunka	Nigeria	4/21	-	1111	1111	-	7837	Echin	Nigeria	4/21	-	-	-	-	-
7751	Waruga tunka	Nigeria	4/21	-	1111	1111	-	7838	Abutilon spina	Nigeria	4/21	-	1111	1111	-	-
7752	Mandragora	Nigeria	4/21	-	1111	1111	-	7839	Abutilon spina	Nigeria	4/21	-	1111	1111	-	-
7753	Mandragora	Nigeria	4/21	-	1111	1111	-	7840	Albizia malabarica	Nigeria	4/21	-	1111	1111	-	-
7754	Jamari	Nigeria	4/21	-	1111	1111	-	7841	Passiflora foetida	Nigeria	4/21	-	1111	1111	-	-
7755	Kanna dierckii kuru	Nigeria	4/21	-	1111	1111	4/21	7842	Passiflora foetida	Nigeria	4/21	-	1111	1111	-	-
7756	Jar kanga	Nigeria	4/21	-	1111	1111	-	7843	Ficus bakula	Nigeria	4/21	-	1111	1111	-	-
7757	Mori diron zaba	Nigeria	4/21	-	1111	1111	-	7844	Bissac	Nigeria	4/21	-	1111	1111	-	-
7758	Mori	Nigeria	4/21	-	1111	1111	-	7845	Pardaria	Nigeria	4/21	-	1111	1111	-	-
7759	Varkama	Nigeria	4/21	-	1111	1111	-	7846	Turkuru	Nigeria	4/21	-	1111	1111	-	-
7760	Asha do toro	Nigeria	4/21	-	1111	1111	-	7847	Pardaria	Nigeria	4/21	-	1111	1111	-	-
7761	Amalgamata mianala	Nigeria	4/21	-	1111	1111	-	7848	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7762	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7849	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7763	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7851	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7764	Jara jara	Nigeria	4/21	-	1111	1111	-	7852	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7765	Mandragora mianala	Nigeria	4/21	-	1111	1111	-	7853	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7766	Handbergi baya	Nigeria	4/21	-	1111	1111	-	7854	Pardaria	Nigeria	4/21	-	1111	1111	-	-
7767	Kuru kuru	Nigeria	4/21	-	1111	1111	-	7855	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7768	Kurawati kuru	Nigeria	4/21	-	1111	1111	-	7856	Bissac	Nigeria	4/21	-	1111	1111	-	-
7769	Mori (Kuru Kuru)	Nigeria	4/21	-	1111	1111	-	7857	Pardaria	Nigeria	4/21	-	1111	1111	-	-
7770	Handbergi baya	Nigeria	4/21	-	1111	1111	-	7858	Adiantum	Nigeria	4/21	-	1111	1111	-	-
7771	Kuru kuru kuru	Nigeria	4/21	-	1111	1111	-	7859	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7772	Thoron zaba	Nigeria	4/21	-	1111	1111	-	7860	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7773	Jara jara	Nigeria	4/21	-	1111	1111	-	7861	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7774	Kuru kuru	Nigeria	4/21	-	1111	1111	-	7862	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7775	Handbergi baya	Nigeria	4/21	-	1111	1111	-	7863	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7776	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7864	Handbergi baya	Nigeria	4/21	-	1111	1111	-	-
7777	Mori	Nigeria	4/21	-	1111	1111	-	7865	Agave	Nigeria	4/21	-	1111	1111	-	-
7778	Kuru kuru	Nigeria	4/21	-	1111	1111	-	7866	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7779	Jara jara kuru	Nigeria	4/21	-	1111	1111	-	7867	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7780	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7868	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	-
7782	Zinnia mianala	Nigeria	4/21	-	1111	1111	-	7869	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7783	Z.A. 74	Nigeria	4/21	-	1111	1111	-	7870	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7784	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7871	Kuru kuru	Nigeria	4/21	-	1111	1111	-	-
7785	Mori kuru	Nigeria	4/21	-	1111	1111	-	7872	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7787	Zinnia mianala	Nigeria	4/21	-	1111	1111	-	7873	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7788	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7874	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7789	Mori kuru	Nigeria	4/21	-	1111	1111	-	7875	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7790	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7876	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7791	Kuru kuru mianala	Nigeria	4/21	-	1111	1111	-	7877	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7792	Handbergi baya	Nigeria	4/21	-	1111	1111	-	7879	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7793	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7880	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7794	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7881	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7795	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7882	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7796	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7883	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7797	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7884	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7798	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7885	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7799	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7886	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7800	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7887	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7801	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7888	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7802	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7889	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7803	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7890	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7804	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7891	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7805	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7892	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7806	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7893	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7807	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7894	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7808	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7895	Chenopodium	Nigeria	4/21	-	1111	1111	-	-
7809	Leben (okuta)	Nigeria	4/21	-	1111	1111	-	7896	Chenopodium	Nigeria	4/21	-	1111	1111	-	-

IS No	Alternative accession identifier	Source country	NF				SB				IS No	Alternative accession identifier	Source country	SB					
			R	PH	1945	195	DR	DR	R	PH				1945	195	DR	DR		
7807	Ekan	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	7807	Ekan da	Nigeria	5(2)	-	1(1)	1(1)	-	-	-
7808	Tigassa shwaki	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7808	Bananki	Nigeria	4(2)	-	1(1)	1(1)	-	-	-
7809	Dogosa	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7809	Jimkara dofi	Nigeria	4(2)	-	5(3)	-	-	-	-
7810	Dokai nahaki	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7810	Baro Jani	Nigeria	5(2)	-	1(1)	1(1)	-	-	-
7811	Isesevewa	Nigeria	3(2)	-	2(1)	2(1)	-	-	-	7811	Mace dawa da	Nigeria	5(2)	-	1(1)	1(1)	-	-	-
7812	Ezeme	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	7812	Akusa	Nigeria	5(2)	-	-	-	-	-	-
7813	Igagaga	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7813	Fa'uboda bofima	Nigeria	5(2)	-	2(1)	1(1)	-	-	-
7814	Ukupa jama dawa	Nigeria	5(2)	-	-	-	-	-	-	7814	Miri Baku kema	Nigeria	4(2)	-	3(1)	1(1)	-	-	-
7815	Ukupa madaki	Nigeria	5(2)	-	-	-	-	-	-	7815	Kawema bakawema	Nigeria	5(2)	-	1(1)	1(1)	-	-	-
7816	Ukupa jama dawa	Nigeria	5(2)	-	2(1)	2(1)	-	-	-	7816	Jam maki	Nigeria	5(2)	-	-	-	-	-	-
7817	Mace da kurra	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	7817	Dogosa shwaki da	Nigeria	5(2)	-	1(1)	2(1)	-	-	-
7818	Anasani	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7818	Kwara damba	Nigeria	4(2)	-	1(1)	1(1)	-	-	-
7819	Gwa Karfa jama koma	Nigeria	4(2)	-	-	-	-	-	-	7819	R'elone	Nigeria	5(1)	-	4(2)	-	-	-	-
7820	Baku kema	Nigeria	4(2)	-	-	-	-	-	-	7820	K'Abu Na'4	Nigeria	5(1)	-	4(2)	-	-	-	-
7821	Ukupa jama dawa	Nigeria	3(2)	-	2(1)	2(1)	-	-	-	7821	HE 602R	Nigeria	5(1)	-	3(2)	-	-	-	-
7822	Ukupa jama dawa	Nigeria	3(2)	-	3(1)	3(1)	-	-	-	7822	HE 602R	Nigeria	5(2)	-	5(1)	-	-	-	-
7823	Ukupa jama dawa	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	7823	K'arima koma 4015	Nigeria	5(1)	-	4(1)	1(1)	-	-	-
7824	Jangare ja	Nigeria	5(2)	-	-	-	-	-	-	7824	Tampesara d'up	Nigeria	5(1)	-	3(2)	-	-	-	-
7825	Jam dawa	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	7825	Hwalya	Nigeria	5(1)	-	3(2)	-	-	-	-
7826	Ukupa jama dawa	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	7826	Ugale	Nigeria	5(2)	-	4(1)	-	-	-	-
7827	Ukupa jama dawa	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	7827	U'5	Nigeria	5(1)	-	5(1)	-	-	-	-
7828	Fara fara jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7828	U'5	Nigeria	5(1)	-	3(2)	-	-	-	-
7829	Kurkama	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7829	U'5	Nigeria	5(1)	-	3(2)	-	-	-	-
7830	Ukupa jama dawa	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7830	U'5	Nigeria	5(1)	-	4(1)	-	-	-	-
7831	Ukupa jama dawa	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7831	U'5	Nigeria	5(1)	-	4(1)	-	-	-	-
7832	Warden kurama	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7832	U'5	Nigeria	5(1)	-	4(1)	1(1)	-	-	-
7833	Ukupa jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7833	U'5	Nigeria	5(1)	-	2(2)	-	-	-	-
7834	Bikwema	Nigeria	4(2)	-	4(2)	-	-	-	-	7834	U'5	Nigeria	4(1)	-	2(2)	1(1)	-	-	-
7835	Fara fara dawa	Nigeria	4(2)	-	-	-	-	-	-	7835	A'5	Nigeria	5(1)	-	4(1)	-	-	-	-
7836	Fara fara dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7836	A'6	Nigeria	5(2)	-	4(1)	-	-	-	-
7837	Ukupa jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7837	A'6	Nigeria	5(1)	-	1(1)	1(1)	-	-	-
7838	Ukupa jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7838	A'6	Nigeria	5(2)	-	4(2)	-	-	-	-
7839	Zambura	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7839	A'10	Nigeria	5(2)	-	4(2)	-	-	-	-
7840	Ukupa jama dawa	Nigeria	3(2)	-	1(1)	1(1)	-	-	-	7840	A'11	Nigeria	5(2)	-	5(1)	-	-	-	-
7841	Jaukema	Nigeria	5(2)	-	1(1)	1(1)	-	-	-	7841	A'12	Nigeria	5(2)	-	4(2)	-	-	-	-
7842	Ukupa jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7842	A'13	Nigeria	5(1)	-	4(1)	-	-	-	-
7843	Fara fara dawa koma	Nigeria	4(2)	-	2(1)	2(1)	-	-	-	7843	A'14	Nigeria	5(1)	-	5(1)	-	-	-	-
7844	U'5	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	7844	A'15	Nigeria	5(1)	-	5(1)	-	-	-	-
7845	Jangare ja	Nigeria	4(2)	-	2(2)	-	-	-	-	7845	A'16	Nigeria	5(1)	-	4(2)	1(1)	-	-	-
7846	Wanda kuzali sakarda	Nigeria	3(2)	-	3(1)	-	-	-	-	7846	A'18	Nigeria	5(1)	-	3(1)	2(1)	-	-	-
7847	Jangare ja	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7847	A'19	Nigeria	5(1)	-	3(1)	-	-	-	-
7848	Jangare ja	Nigeria	4(2)	-	3(2)	3(2)	-	-	-	7848	A'20	Nigeria	5(1)	-	3(1)	-	-	-	-
7849	Ukupa jama dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7849	A'21	Nigeria	5(1)	-	3(1)	-	-	-	-
7850	U'5	Nigeria	4(2)	-	3(1)	3(1)	-	-	-	7850	A'22	Nigeria	5(1)	-	3(1)	-	-	-	-
7851	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7851	A'23	Nigeria	5(1)	-	1(1)	1(1)	-	-	-
7852	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7852	A'24	Nigeria	5(1)	-	3(1)	-	-	-	-
7853	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7853	A'25	Nigeria	5(1)	-	3(1)	-	-	-	-
7854	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7854	A'26	Nigeria	5(1)	-	3(1)	-	-	-	-
7855	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7855	A'27	Nigeria	5(1)	-	3(1)	-	-	-	-
7856	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7856	A'28	Nigeria	5(1)	-	3(1)	-	-	-	-
7857	Makaladi dawa	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7857	A'29	Nigeria	5(1)	-	3(1)	-	-	-	-
7858	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7858	A'30	Nigeria	5(1)	-	3(1)	-	-	-	-
7859	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7859	A'31	Nigeria	5(1)	-	3(1)	-	-	-	-
7860	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7860	A'32	Nigeria	5(1)	-	3(1)	-	-	-	-
7861	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7861	A'33	Nigeria	5(1)	-	3(1)	-	-	-	-
7862	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7862	A'34	Nigeria	5(1)	-	3(1)	-	-	-	-
7863	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7863	A'35	Nigeria	5(1)	-	3(1)	-	-	-	-
7864	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7864	A'36	Nigeria	5(1)	-	3(1)	-	-	-	-
7865	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7865	A'37	Nigeria	5(1)	-	3(1)	-	-	-	-
7866	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7866	A'38	Nigeria	5(1)	-	3(1)	-	-	-	-
7867	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7867	A'39	Nigeria	5(1)	-	3(1)	-	-	-	-
7868	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7868	A'40	Nigeria	5(1)	-	3(1)	-	-	-	-
7869	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7869	A'41	Nigeria	5(1)	-	3(1)	-	-	-	-
7870	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7870	A'42	Nigeria	5(1)	-	3(1)	-	-	-	-
7871	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7871	A'43	Nigeria	5(1)	-	3(1)	-	-	-	-
7872	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7872	A'44	Nigeria	5(1)	-	3(1)	-	-	-	-
7873	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7873	A'45	Nigeria	5(1)	-	3(1)	-	-	-	-
7874	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7874	A'46	Nigeria	5(1)	-	3(1)	-	-	-	-
7875	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7875	A'47	Nigeria	5(1)	-	3(1)	-	-	-	-
7876	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7876	A'48	Nigeria	5(1)	-	3(1)	-	-	-	-
7877	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7877	A'49	Nigeria	5(1)	-	3(1)	-	-	-	-
7878	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7878	A'50	Nigeria	5(1)	-	3(1)	-	-	-	-
7879	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7879	A'51	Nigeria	5(1)	-	3(1)	-	-	-	-
7880	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7880	A'52	Nigeria	5(1)	-	3(1)	-	-	-	-
7881	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7881	A'53	Nigeria	5(1)	-	3(1)	-	-	-	-
7882	U'5	Nigeria	4(2)	-	1(1)	1(1)	-	-	-	7882	A'54	Nigeria	5(1)	-	3(1)	-	-	-	-
7883	U'5																		

IS No	Alternative accession identifier	Source country	SF					IS No	Alternative accession identifier	Source country	SF					
			R	PR	URS	US	JR				DR	R	PR	URS	US	JR
B096	A 91	Japan	5(1)	-	5(1)	-	5(1)	-	B184	FC 21370	Uganda	5(1)	-	1(1)	1(1)	-
B097	A 92	Japan	5(1)	-	5(1)	-	5(1)	-	B185	FC 21381	Uganda	5(2)	5(1)	1(1)	5(1)	5(1)
B098	A 93	Japan	5(2)	-	5(2)	-	5(1)	-	B186	FC 21382	Uganda	4(1)	5(1)	1(1)	1(1)	-
B099	A 94	Japan	5(1)	-	5(1)	-	5(1)	-	B187	FC 21383	Uganda	5(2)	-	1(1)	1(1)	-
B100	A 95	Japan	5(1)	-	5(1)	-	5(1)	-	B188	FC 21384	Uganda	5(2)	5(1)	1(1)	1(1)	-
B101	A 97	Japan	4(2)	5(1)	5(2)	5(1)	5(1)	-	B189	FC 21385	Uganda	5(1)	4(2)	5(1)	-	5(1)
B102	A 98	Japan	4(2)	-	5(1)	1(1)	5(1)	-	B190	FC 21386	Uganda	5(1)	-	4(1)	-	5(1)
B103	A 99	Japan	4(2)	-	5(1)	1(1)	5(1)	-	B191	FC 21387	Uganda	4(1)	-	4(1)	-	-
B104	A 100	Japan	4(2)	-	5(1)	1(1)	5(1)	-	B192	FC 21389	Uganda	4(1)	-	4(1)	-	-
B105	A 101	Japan	4(2)	-	5(1)	1(1)	5(1)	-	B193	FC 21390	Uganda	4(2)	-	3(1)	-	-
B107	A 103	Japan	5(1)	-	5(1)	-	5(1)	-	B194	FC 21391	Uganda	4(2)	-	3(2)	-	5(1)
B108	A 104 1	Japan	5(1)	-	5(1)	-	5(1)	-	B196	FC 21392	Uganda	4(1)	-	3(2)	-	5(1)
B110	A 104 4	Japan	5(1)	-	5(1)	-	5(1)	5(2)	B197	FC 21393	Uganda	5(1)	5(1)	4(1)	-	-
B111	A 105	Japan	5(1)	5(1)	5(1)	-	5(1)	-	B198	FC 21395	Uganda	3(1)	5(2)	3(1)	-	5(1)
B112	A 106	Japan	4(4)	-	5(2)	-	5(1)	-	B199	FC 21396	Uganda	4(1)	5(2)	3(1)	-	-
B113	A 107	Japan	5(1)	5(1)	5(1)	-	5(1)	-	B200	FC 21397	Uganda	5(1)	5(1)	3(1)	-	-
B114	A 108	Japan	5(1)	-	5(1)	-	5(1)	-	B201	FC 21398	Uganda	4(1)	5(1)	1(1)	1(1)	-
B116	A 110	Japan	5(1)	-	5(1)	-	5(1)	-	B202	LC 21399	Uganda	4(1)	-	3(1)	-	-
B117	A 111 Faw	Japan	5(1)	-	-	-	-	-	B203	FC 21400	Uganda	5(1)	-	1(1)	1(1)	-
B119	A 112 2	Japan	5(1)	-	3(1)	-	-	-	B204	FC 21401	Uganda	4(1)	-	-	-	5(1)
B120	A 112 3	Japan	5(1)	-	4(1)	-	5(1)	5(1)	B205	FC 21402	Uganda	4(1)	-	3(1)	-	5(1)
B121	A 112 4	Japan	5(1)	-	3(2)	-	5(1)	-	B206	LC 21403	Uganda	5(2)	5(1)	1(2)	-	5(1)
B122	A 112 5	Japan	5(1)	-	3(2)	-	5(1)	-	B207	FC 21404	Uganda	4(1)	-	3(2)	-	5(1)
B124	A 111	Japan	5(1)	-	3(1)	-	5(1)	-	B208	FC 21405	Uganda	5(1)	5(1)	3(1)	-	5(1)
B124	A 114	Japan	4(1)	5(1)	5(1)	-	5(1)	-	B209	FC 21406	Uganda	5(1)	4(1)	3(2)	-	5(1)
B125	A 115	Japan	5(1)	5(2)	1(2)	1(1)	-	-	B210	FC 21407	Uganda	5(1)	5(1)	5(1)	-	-
B126	A 116	Japan	5(1)	5(2)	1(1)	1(1)	-	-	B211	FC 21408	Uganda	5(1)	5(1)	5(1)	-	-
B127	A 117	Japan	5(1)	5(2)	2(1)	1(1)	-	-	B212	FC 21410	Uganda	5(1)	5(1)	1(1)	-	-
B128	A 117 2	Japan	5(2)	-	5(1)	-	5(1)	-	B214	FC 21411	Uganda	4(1)	-	1(2)	1(2)	-
B129	A 117 3	Japan	4(1)	-	5(1)	-	5(1)	-	B216	FC 21414	Uganda	5(1)	-	5(1)	-	-
B131	A 121	Japan	5(2)	-	3(2)	-	5(2)	-	B217	FC 21414	Uganda	5(1)	-	5(2)	-	1(1)
B132	A 122	Japan	5(1)	-	4(2)	-	5(1)	-	B218	FC 21415	Uganda	5(1)	3(1)	-	-	5(1)
B133	A 128	Japan	5(1)	-	5(1)	-	5(1)	-	B219	FC 21416	Uganda	5(1)	4(1)	4(1)	-	5(1)
B134	FC 21422	Uganda	5(1)	-	3(1)	-	-	-	B220	FC 21417	Uganda	5(1)	-	5(1)	-	5(1)
B135	FC 21421	Uganda	4(1)	-	3(1)	-	-	-	B221	FC 21418	Uganda	5(1)	-	5(1)	-	5(1)
B136	FC 21424	Uganda	5(1)	-	-	-	-	-	B222	LC 21419	Uganda	5(1)	-	3(1)	1(1)	-
B137	FC 21425	Uganda	5(1)	5(1)	1(1)	1(1)	-	-	B223	FC 21420	Uganda	5(1)	-	3(1)	-	1(1)
B138	FC 21426	Uganda	5(1)	4(1)	-	-	5(1)	-	B224	FC 21421	Uganda	5(1)	-	3(2)	-	-
B139	FC 21427	Uganda	5(1)	5(1)	1(1)	1(1)	-	-	B225	FC 21422	Uganda	5(1)	-	3(1)	-	-
B140	FC 21430	Uganda	5(1)	5(1)	1(1)	1(1)	-	-	B227	FC 21424	Uganda	5(1)	-	3(1)	1(1)	3(2)
B141	FC 21431	Uganda	5(1)	-	4(2)	-	3(1)	5(1)	B228	LC 21425	Uganda	5(1)	-	3(2)	-	1(2)
B142	FC 21432	Uganda	5(1)	-	4(2)	-	-	-	B229	FC 21426	Uganda	5(1)	-	3(1)	-	-
B143	FC 21433	Uganda	5(1)	-	3(2)	-	5(1)	-	B230	FC 21427	Uganda	5(1)	5(1)	-	-	-
B144	FC 21434	Uganda	5(1)	-	4(1)	-	-	-	B231	FC 21428	Uganda	5(1)	-	4(4)	-	-
B145	FC 21435	Uganda	5(1)	-	3(2)	-	5(1)	-	B232	FC 21429	Uganda	5(1)	-	4(2)	-	5(1)
B146	FC 21436	Uganda	5(1)	-	4(1)	-	5(1)	-	B234	FC 21431	Uganda	5(1)	4(1)	3(1)	-	-
B147	FC 21447	Uganda	5(1)	4(1)	1(1)	1(1)	5(1)	5(1)	B235	FC 21432	Uganda	5(1)	-	2(2)	1(1)	2(1)
B148	FC 21438	Uganda	5(1)	-	4(1)	-	-	-	B236	FC 21433	Uganda	5(1)	1(1)	3(1)	-	5(1)
B149	FC 21439	Uganda	5(1)	-	5(1)	-	5(1)	-	B237	FC 21434	Uganda	5(1)	-	4(1)	-	-
B150	FC 21440	Uganda	5(1)	5(1)	1(1)	1(1)	-	-	B238	FC 21435	Uganda	5(1)	-	3(1)	-	5(1)
B151	FC 21441	Uganda	5(1)	-	3(2)	-	-	-	B239	FC 21436	Uganda	5(1)	5(1)	3(1)	-	5(1)
B152	FC 21443	Uganda	5(1)	-	3(2)	-	-	-	B240	FC 21437	Uganda	5(1)	5(1)	3(1)	-	-
B153	FC 21444	Uganda	5(1)	-	4(1)	-	-	-	B241	FC 21438	Uganda	5(1)	-	1(1)	-	5(1)
B154	FC 21445	Uganda	5(1)	-	-	-	-	-	B243	FC 21440	Uganda	5(1)	-	4(1)	1(1)	1(1)
B155	FC 21446	Uganda	5(1)	-	3(2)	-	-	-	B244	FC 21441	Uganda	5(1)	5(1)	3(2)	-	-
B156	FC 21447	Uganda	5(1)	-	3(1)	-	5(1)	-	B245	LC 21442	Uganda	4(1)	-	1(1)	1(1)	-
B157	FC 21448	Uganda	5(1)	-	4(1)	-	5(1)	5(1)	B246	FC 21444	Uganda	5(1)	-	1(1)	1(1)	5(1)
B158	FC 21450	Uganda	5(1)	-	4(1)	-	-	-	B247	FC 21444	Uganda	5(1)	4(1)	3(2)	1(1)	5(1)
B159	FC 21451	Uganda	5(1)	-	3(1)	-	5(1)	5(1)	B248	FC 21445	Uganda	5(1)	-	3(2)	-	5(1)
B160	FC 21452	Uganda	5(1)	-	4(1)	1(1)	5(1)	5(1)	B249	FC 21446	Uganda	5(1)	-	3(1)	-	5(1)
B161	FC 21453	Uganda	5(1)	5(1)	3(1)	1(1)	5(1)	5(1)	B250	FC 21447	Uganda	5(1)	5(1)	3(1)	-	5(1)
B162	FC 21454	Uganda	5(1)	-	4(1)	-	5(1)	-	B251	FC 21448	Uganda	5(1)	-	1(1)	1(1)	5(1)
B163	FC 21455	Uganda	5(1)	-	4(1)	-	5(1)	-	B252	FC 21455	Uganda	5(1)	-	1(1)	1(1)	5(1)
B164	FC 21456	Uganda	5(1)	-	4(1)	-	5(1)	-	B253	FC 21456	Uganda	5(1)	-	1(1)	1(1)	5(1)
B165	FC 21459	Uganda	5(1)	-	3(1)	-	5(1)	-	B254	FC 21457	Uganda	5(1)	-	1(2)	1(1)	5(1)
B166	FC 21460	Uganda	5(1)	5(1)	3(1)	-	5(1)	-	B260	FC 21460	Uganda	4(1)	-	1(1)	1(1)	-
B167	FC 21461	Uganda	5(1)	4(1)	3(2)	-	-	-	B261	FC 21461	Uganda	4(2)	3(2)	1(1)	1(1)	-
B168	FC 21462	Uganda	5(1)	-	-	-	-	-	B262	FC 21462	Uganda	4(1)	-	1(1)	1(1)	-
B169	FC 21463	Uganda	5(1)	-	4(1)	-	5(1)	-	B263	FC 21463	Uganda	4(1)	3(2)	-	-	-
B170	FC 21464	Uganda	5(1)	-	1(1)	1(1)	-	-	B264	FC 21464	Uganda	4(1)	3(1)	2(1)	1(1)	1(1)
B171	FC 21465	Uganda	5(1)	-	4(1)	-	-	-	B265	FC 21465	Uganda	5(1)	5(1)	1(1)	1(1)	-
B172	FC 21466	Uganda	5(1)	-	4(1)	-	5(1)	-	B266	FC 21466	Uganda	5(1)	-	1(1)	1(1)	-
B173	FC 21467	Uganda	5(1)	-	4(1)	-	5(1)	-	B267	FC 21467	Uganda	5(1)	5(1)	1(1)	1(1)	-
B174	FC 21468	Uganda	5(1)	-	4(1)	-	5(1)	-	B268	FC 21468	Uganda	5(1)	5(1)	1(1)	1(1)	-
B175	FC 21469	Uganda	5(1)	-	3(1)	-	5(1)	-	B269	FC 21470	Uganda	5(2)	4(2)	4(1)	-	-
B176	FC 21470	Uganda	5(1)	-	3(2)	-	-	-	B270	FC 21471	Uganda	5(1)	-	-	-	-
B177	FC 21472	Uganda	4(2)	-	-	-	-	-	B271	FC 21472	Uganda	5(1)	-	-	-	-
B178	FC 21474	Uganda	4(1)	5(1)	5(1)	3(1)	5(1)	-	B272	FC 21473	Uganda	5(1)	-	3(2)	-	5(1)
B179	FC 21474	Uganda	5(1)	-	3(2)	-	-	-	B273	FC 21474	Uganda	5(1)	-	3(2)	-	-
B180	FC 21476	Uganda	5(1)	3(1)	3(2)	1(1)	5(1)	-	B274	FC 21475	Uganda	5(1)	5(2)	4(2)	-	5(1)
B181	FC 21477	Uganda	5(1)	-	1(1)	1(1)	-	-	B276	FC 21472	Uganda	5(1)	4(1)	3(1)	-	5(1)
B182	FC 21478	Uganda	5(1)	-	1(1)	1(1)	-	-	B277	FC 21478	Uganda	5(1)	-	3(2)	-	-

IS No	Alternate accession identifier	Source country	SP					IS No	Alternate accession identifier	Source country	SP				
			R	PR	DMS	LFS	UR				UR	R	PR	DMS	LFS
8594	Kauro (SB 404)	Nigeria	4(1)	-	(11)	(11)	-	8701	E 157	Kenya	4(1)	-	-	-	-
8595	SH 217	Sudan	5(1)	-	-	-	-	8704	Kauro	Nigeria	4(1)	-	(11)	(11)	-
8596	F 52	Uganda	5(1)	-	(11)	(11)	-	8706	E 160	Nigeria	4(1)	-	(11)	(11)	-
8601	E 51	Uganda	4(1)	-	(11)	(11)	-	8708	F 162	Nigeria	4(1)	-	(11)	(11)	-
8601	E 55	Uganda	2(1)	-	-	-	-	8709	E 163	Nigeria	4(2)	3(1)	4(1)	-	5(1)
8602	F 55	Uganda	5(1)	2(1)	5(1)	1(1)	5(1)	8710	F 164	Nigeria	5(1)	-	(11)	-	-
8602	E 56	Uganda	3(1)	2(1)	4(1)	1(1)	5(1)	8711	F 165	Nigeria	4(1)	-	3(1)	3(1)	4(1)
8604	E 57	Uganda	3(1)	2(1)	1(1)	1(1)	5(1)	8712	E 166	Nigeria	4(2)	3(1)	3(1)	-	4(2)
8605	F 58	Uganda	5(1)	-	(11)	(11)	-	8713	F 167	Nigeria	4(1)	3(1)	-	-	3(1)
8605	F 59	Uganda	4(1)	-	-	-	-	8714	F 168	Nigeria	4(1)	-	4(1)	-	4(1)
8607	F 60	Uganda	4(1)	2(1)	3(1)	-	5(1)	8715	E 169	Nigeria	4(2)	3(1)	-	-	4(2)
8608	E 61	Uganda	4(1)	2(1)	2(1)	4(1)	5(1)	8716	F 170	Nigeria	4(2)	-	3(1)	-	4(2)
8609	F 62	Uganda	5(1)	-	(11)	(11)	-	8717	F 171	Nigeria	3(1)	-	3(1)	-	-
8610	F 61	Uganda	5(1)	5(1)	(11)	(11)	-	8718	F 172	Nigeria	4(2)	3(1)	(11)	(11)	5(1)
8611	F 64	Uganda	4(2)	4(1)	(11)	(11)	-	8719	F 173	Nigeria	3(1)	-	4(2)	4(1)	5(1)
8612	E 65	Uganda	2(2)	4(1)	(11)	(11)	-	8720	F 174	Nigeria	3(1)	-	2(2)	-	3(1)
8615	Kauro No 62	Kenya	5(1)	-	2(1)	-	5(1)	8721	F 175	Nigeria	4(2)	4(1)	3(1)	4(1)	5(1)
8614	Kauroside area	Uganda	5(1)	3(1)	4(1)	-	5(1)	8722	F 176	Nigeria	5(1)	-	3(1)	-	5(1)
8615	Kauroside area	Uganda	4(2)	2(2)	4(1)	-	5(1)	8723	F 177	Nigeria	4(2)	2(1)	1(1)	(11)	3(1)
8616	Kauroside area	Uganda	5(1)	4(2)	4(1)	-	5(1)	8724	F 178	Nigeria	4(2)	3(1)	4(1)	2(1)	5(1)
8617	Kauroside area	Uganda	5(1)	5(1)	5(1)	-	5(1)	8725	F 179	Nigeria	2(1)	-	2(1)	-	4(1)
8618	Longo area	Uganda	5(1)	5(1)	2(1)	-	5(1)	8726	F 181	Nigeria	5(1)	-	-	-	5(1)
8619	Longo area	Uganda	5(1)	-	2(1)	-	-	8728	E 185	Kenya	5(1)	-	3(1)	-	4(2)
8621	Longo area	Uganda	5(1)	-	-	-	-	8729	E 186	Kenya	4(1)	-	2(1)	-	5(1)
8622	Longo area	Uganda	5(1)	-	-	-	5(1)	8730	F 197	Kenya	5(2)	2(1)	3(1)	-	-
8623	Longo area	Uganda	5(1)	5(1)	(11)	(11)	-	8731	F 198	Kenya	2(1)	-	-	-	5(1)
8624	Longo area	Uganda	5(1)	-	(11)	(11)	-	8733	E 200	Kenya	5(1)	-	-	-	5(1)
8625	Longo area	Uganda	5(1)	-	4(1)	-	-	8735	F 202	Kenya	3(1)	4(1)	-	-	-
8628	Hinyra area	Uganda	5(1)	-	2(1)	-	5(1)	8736	F 204	Kenya	4(1)	-	3(1)	-	-
8629	Hinyra area	Uganda	5(1)	-	2(1)	-	-	8737	F 204	Kenya	4(1)	2(1)	4(1)	-	-
8630	Hinyra area	Uganda	5(1)	3(1)	3(1)	-	-	8738	S. nigricans	South Africa	3(1)	-	3(1)	-	-
8631	E 85	Kenya	2(1)	-	3(1)	-	5(1)	8739	S. 220	South Africa	3(1)	3(1)	(11)	3(1)	2(1)
8631	U 85a	Nigeria	2(1)	-	3(1)	-	5(1)	8741	U 200	South Africa	2(1)	-	3(1)	-	-
8635	F 88	Nigeria	4(1)	-	4(1)	3(1)	5(1)	8742	U 200	South Africa	3(1)	-	3(1)	-	3(1)
8636	E 89	South Africa	5(1)	-	3(1)	-	-	8741	Barnard red	South Africa	5(1)	3(1)	4(2)	-	4(1)
8637	E 90	South Africa	5(1)	-	3(1)	-	5(1)	8744	Flamida	South Africa	5(1)	3(1)	4(2)	-	5(1)
8638	Teso area	Uganda	5(1)	-	3(1)	-	5(1)	8746	Bird pond (red type)	South Africa	5(1)	4(1)	3(1)	-	-
8639	Teso area	Uganda	4(1)	3(1)	4(2)	-	5(1)	8747	Stala red	South Africa	5(1)	4(1)	2(1)	-	5(1)
8640	F 93	Uganda	5(1)	-	4(1)	-	-	8748	Bird pond	South Africa	5(1)	-	4(1)	-	4(2)
8642	F 95	Uganda	5(1)	-	4(2)	-	-	8749	Novos red	South Africa	5(1)	-	4(2)	-	5(1)
8643	E 96	Uganda	5(1)	3(1)	4(1)	-	-	8750	Novos P22A	South Africa	5(1)	-	4(1)	-	-
8644	F 97	Uganda	5(1)	-	4(2)	-	-	8751	Ex. Galia selina	South Africa	5(2)	4(1)	1(1)	1(1)	4(1)
8645	W Nile	Uganda	5(1)	-	(11)	(11)	-	8752	U 200	South Africa	5(1)	3(1)	1(1)	1(1)	3(1)
8646	W Nile	Uganda	5(1)	-	(11)	(11)	-	8753	Kader 1780A	South Africa	3(1)	4(1)	1(1)	1(1)	3(1)
8647	W Nile	Uganda	5(1)	-	(11)	(11)	-	8754	Bird pond (pressed)	South Africa	3(1)	4(1)	3(1)	-	5(1)
8648	W Nile	Uganda	5(1)	-	(11)	(11)	-	8755	Kamakhya shafred	South Africa	4(1)	-	3(1)	-	5(1)
8649	W Nile	Uganda	4(2)	3(1)	-	-	5(1)	8756	Togodini Bagdad	South Africa	4(1)	3(1)	4(1)	-	5(1)
8650	W Nile	Uganda	5(1)	-	4(2)	-	-	8757	S. cafferanum	South Africa	5(2)	4(1)	1(1)	1(1)	4(1)
8655	W Nile	Uganda	4(2)	4(1)	2(1)	-	5(1)	8758	S. cafferanum	South Africa	3(1)	-	1(1)	1(1)	3(1)
8656	W Nile	Uganda	4(1)	3(1)	4(1)	-	-	8759	S. cafferanum	South Africa	5(1)	-	5(1)	-	5(1)
8657	W Nile	Uganda	5(1)	-	4(1)	-	-	8760	S. cafferanum	South Africa	4(1)	2(1)	1(1)	1(1)	3(1)
8661	Kauro	USA	5(1)	3(1)	4(1)	-	5(1)	8761	S. nigricans	South Africa	4(2)	3(1)	4(1)	-	-
8662	Luffy beak	USA	5(1)	4(1)	4(1)	-	5(1)	8762	S. cafferanum	South Africa	4(1)	-	3(1)	-	5(1)
8663	Kauro	Tanzania	5(1)	-	(11)	(11)	-	8763	S. cafferanum	South Africa	5(1)	-	3(1)	-	5(1)
8664	Marlin	Tanzania	5(1)	-	(11)	(11)	-	8764	S. cafferanum	South Africa	5(1)	-	3(1)	-	5(1)
8665	Carbone Kauro	USA	5(1)	-	(11)	(11)	-	8765	Bird pond	South Africa	3(1)	3(1)	3(1)	-	5(1)
8667	Peto	Ghana	5(1)	-	3(1)	-	4(1)	8766	S. cafferanum	South Africa	5(1)	4(1)	3(1)	1(1)	5(1)
8669	I 180	South Africa	-	-	3(1)	-	-	8767	S. cafferanum	South Africa	5(1)	-	3(1)	-	-
8670	F 124	Swaziland	5(1)	-	-	-	-	8768	Franklin white	South Africa	5(2)	3(1)	3(1)	3(1)	3(1)
8671	F 125	Swaziland	5(1)	-	2(2)	-	2(2)	8769	E 200	South Africa	5(1)	-	1(1)	-	5(1)
8672	F 126	Swaziland	5(1)	-	3(1)	-	3(1)	8770	S. cafferanum	South Africa	4(2)	2(1)	1(1)	2(1)	4(1)
8674	F 128	Swaziland	5(1)	-	3(1)	-	3(1)	8771	Nectus	South Africa	5(1)	-	4(1)	-	5(1)
8675	SB 25	Swaziland	5(1)	-	3(1)	-	-	8772	Ballfontain white	South Africa	5(1)	-	3(1)	-	5(1)
8676	E 110	Swaziland	5(1)	-	3(1)	-	-	8773	Ballfontain white	South Africa	5(1)	3(1)	3(1)	-	5(1)
8677	F 111	Swaziland	5(1)	-	3(1)	-	5(1)	8774	S. cafferanum	South Africa	5(1)	2(1)	3(1)	-	5(1)
8678	F 112	Swaziland	5(1)	-	3(1)	-	5(1)	8775	S. cafferanum	South Africa	5(1)	-	3(1)	-	5(1)
8679	F 113	Swaziland	5(1)	-	3(1)	-	5(1)	8776	S. cafferanum	South Africa	5(1)	-	3(1)	-	5(1)
8680	F 114	Swaziland	4(2)	4(2)	3(1)	-	-	8777	Kauro 11	Uganda	5(1)	-	4(2)	-	-
8682	F 116	Tanzania	5(1)	-	-	-	-	8778	Mwambi 25 (of 27)	Uganda	4(1)	-	3(1)	-	-
8684	E 108	Tanzania	5(1)	-	3(1)	-	5(1)	8779	SB 27 & Heko 76	Uganda	3(1)	4(1)	1(1)	2(1)	-
8685	Kauro	Sudan	3(1)	-	(11)	(11)	-	8780	SB 27	Uganda	3(1)	-	3(2)	-	5(1)
8686	Beke	Nigeria	5(1)	-	-	-	-	8781	T Jontje (Zambia)	Uganda	5(1)	-	3(1)	3(1)	-
8687	Be 37	Zaire	4(1)	5(1)	3(1)	-	5(1)	8782	Idesche	Uganda	4(1)	-	2(1)	4(1)	-
8688	Wad zali	Sudan	3(1)	-	3(1)	-	3(1)	8781	E 211	Kenya	3(2)	2(1)	4(1)	-	3(1)
8689	Eko mutakhi	Sudan	3(1)	-	-	-	-	8784	Silava	Kenya	5(1)	-	-	-	-
8691	Heko bak SB 27A	Kenya	5(1)	-	2(1)	(11)	5(1)	8785	Flamida	Kenya	5(1)	-	3(1)	-	-
8691	E 147	Sudan	3(1)	-	-	-	-	8786	Petereba baik	Sudan	3(2)	3(1)	1(1)	1(1)	3(1)
8692	E 150	Uganda	5(1)	-	4(2)	-	5(1)	8787	Novos Le cafferanum	South Africa	4(1)	-	3(1)	-	-
8693	Beke	Zambia	5(1)	-	-	-	-	8789	Wad SB 20	Tanzania	4(2)	-	3(1)	-	-
8694	Shiloh Uganda	Sudan	5(1)	-	(11)	(11)	-	8790	Mwambi 25	Zimbabwe	4(1)	-	3(1)	-	-
8701	Shiloh	Sudan	5(1)	-	4(1)	-	5(1)	8791	E 284	Zimbabwe	4(1)	-	3(1)	-	-
8702	E 156	Sudan	5(1)	2(1)	3(1)	-	-	8792	E 285	Zimbabwe	4(1)	3(1)	1(1)	-	-

IS No	Alternative accession identifier	Source country	SP			SH			IS No	Alternative accession identifier	Source country	SP			SH			DR
			R	PR	LS	R	PR	LS				R	PR	LS	R	PR	LS	
R704	E 287	Zimbabwe	5(1)	-	3(2)	-	-	R898	E 553	Uganda	5(1)	-	3(2)	-	-	3(1)	3(1)	
R705	E 288	Zimbabwe	5(1)	-	1(1)	1(1)	-	R899	E 554	Uganda	4(1)	5(1)	1(1)	1(1)	-	-	-	
R706	E 289	Sudan	2(1)	-	1(1)	5(1)	5(1)	R900	E 555	Uganda	5(1)	-	1(1)	1(1)	-	-	-	
R707	E 290	Sudan	5(1)	-	1(1)	1(1)	-	R901	E 556	Uganda	5(1)	4(2)	3(2)	3(1)	2(2)	5(1)	-	
R709	E 292	Sudan	5(1)	-	1(1)	2(1)	5(1)	R902	E 557	Uganda	5(1)	5(1)	3(1)	3(1)	-	-	-	
R710	E 293	Sudan	5(1)	-	5(1)	-	-	R903	E 558	Uganda	5(1)	-	-	-	-	-	-	
R711	E 294	Sudan	5(1)	5(2)	5(1)	-	5(2)	R904	E 559	Uganda	4(1)	-	1(1)	1(1)	1(1)	-	-	
R712	E 295	USA	4(1)	-	3(2)	-	-	R905	E 560	Uganda	4(2)	3(1)	3(1)	1(1)	1(1)	1(1)	-	
R713	E 296	USA	2(1)	-	1(1)	1(1)	-	R906	E 561	Uganda	4(1)	5(1)	1(1)	1(1)	-	-	-	
R714	E 297	USA	4(1)	-	1(1)	1(1)	-	R907	E 562	Uganda	4(1)	5(1)	-	-	-	-	-	
R715	E 298	Uganda	4(1)	5(1)	1(1)	1(1)	-	R908	E 563	Uganda	-	-	1(1)	1(1)	-	-	-	
R716	E 299	Uganda	4(2)	-	1(1)	2(1)	-	R909	E 564	Uganda	4(1)	5(1)	1(1)	1(1)	-	-	-	
R717	E 300	Uganda	3(1)	4(2)	5(1)	-	5(1)	R910	E 565	Uganda	3(1)	5(1)	1(1)	1(1)	-	-	-	
R718	E 301	Uganda	4(1)	4(2)	3(2)	1(1)	5(1)	R911	E 566	Uganda	4(1)	5(1)	1(1)	1(1)	-	-	-	
R719	E 302	Uganda	4(1)	4(2)	3(2)	1(1)	5(1)	R912	E 567	Uganda	4(1)	5(1)	1(1)	1(1)	-	-	-	
R720	E 303	Uganda	4(2)	4(2)	3(2)	4(2)	5(1)	R913	E 568	Uganda	4(2)	3(1)	3(1)	1(1)	-	-	-	
R721	E 304	Uganda	3(2)	5(2)	4(2)	1(1)	-	R914	E 569	Uganda	5(1)	3(1)	3(1)	1(1)	-	-	-	
R722	E 305	Uganda	5(1)	-	5(2)	1(1)	-	R915	E 570	Uganda	5(1)	4(1)	4(1)	-	5(2)	5(1)	-	
R723	E 306	Uganda	5(1)	-	5(2)	1(1)	-	R916	E 571	Uganda	5(1)	-	-	-	-	-	-	
R724	E 307	Uganda	5(1)	-	5(2)	1(1)	-	R917	E 572	Uganda	5(1)	-	-	-	-	-	-	
R725	E 308	Uganda	5(1)	-	5(2)	1(1)	-	R918	E 573	Uganda	5(1)	-	-	-	-	-	-	
R726	E 309	Uganda	5(1)	-	5(2)	1(1)	-	R919	E 574	Uganda	5(1)	-	-	-	-	-	-	
R727	E 310	Uganda	5(1)	-	5(2)	1(1)	-	R920	E 575	Uganda	5(1)	-	-	-	-	-	-	
R728	E 311	Kenya	5(1)	-	1(1)	1(1)	-	R921	E 576	Uganda	4(2)	5(1)	1(1)	1(1)	-	-	-	
R729	E 312	Kenya	5(1)	-	2(1)	-	-	R922	E 577	Uganda	5(1)	-	1(1)	1(1)	-	-	-	
R730	E 313	Kenya	5(1)	-	2(1)	-	-	R923	E 578	Uganda	5(1)	5(1)	1(1)	1(1)	-	-	-	
R731	E 314	Kenya	5(1)	-	3(1)	5(1)	-	R924	E 579	Uganda	5(2)	5(1)	-	-	-	-	-	
R732	E 315	Kenya	5(1)	-	3(1)	5(1)	-	R925	E 580	Uganda	5(1)	5(1)	3(1)	3(1)	-	-	-	
R733	E 316	Kenya	5(1)	-	3(1)	5(1)	-	R926	E 581	Uganda	5(1)	-	4(2)	3(2)	-	-	-	
R734	E 317	Kenya	5(1)	-	2(1)	-	-	R927	E 582	Uganda	5(1)	-	4(2)	3(2)	-	-	-	
R735	E 318	Kenya	5(1)	-	2(1)	-	-	R928	E 583	Uganda	5(1)	4(1)	4(1)	4(1)	3(2)	-	-	
R736	E 319	Kenya	5(1)	-	2(1)	-	-	R929	E 584	Uganda	5(1)	-	4(2)	3(2)	-	-	-	
R737	E 320	Kenya	5(1)	-	2(1)	-	-	R930	E 585	Uganda	5(1)	-	4(2)	3(2)	-	-	-	
R738	E 321	Kenya	5(1)	-	2(1)	-	-	R931	E 586	Uganda	5(1)	-	4(2)	3(2)	-	-	-	
R739	E 322	Kenya	5(1)	-	2(1)	-	-	R932	E 587	Kenya	5(2)	5(1)	3(1)	4(1)	-	-	-	
R740	E 323	Kenya	5(1)	-	4(2)	3(1)	-	R933	E 588	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R741	E 324	Kenya	5(1)	-	4(2)	3(1)	-	R934	E 589	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R742	E 325	Kenya	5(1)	-	4(2)	3(1)	-	R935	E 590	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R743	E 326	Kenya	5(1)	-	4(2)	3(1)	-	R936	E 591	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R744	E 327	Kenya	5(1)	-	4(2)	3(1)	-	R937	E 592	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R745	E 328	Kenya	5(1)	-	4(2)	3(1)	-	R938	E 593	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R746	E 329	Kenya	5(1)	-	4(2)	3(1)	-	R939	E 594	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R747	E 330	Kenya	5(1)	-	4(2)	3(1)	-	R940	E 595	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R748	E 331	Kenya	5(1)	-	4(2)	3(1)	-	R941	E 596	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R749	E 332	Kenya	5(1)	-	4(2)	3(1)	-	R942	E 597	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R750	E 333	Kenya	5(1)	-	4(2)	3(1)	-	R943	E 598	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R751	E 334	Kenya	5(1)	-	4(2)	3(1)	-	R944	E 599	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R752	E 335	Kenya	5(1)	-	4(2)	3(1)	-	R945	E 600	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R753	E 336	Kenya	5(1)	-	4(2)	3(1)	-	R946	E 601	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R754	E 337	Kenya	5(1)	-	4(2)	3(1)	-	R947	E 602	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R755	E 338	Kenya	5(1)	-	4(2)	3(1)	-	R948	E 603	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R756	E 339	Kenya	5(1)	-	4(2)	3(1)	-	R949	E 604	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R757	E 340	Kenya	5(1)	-	4(2)	3(1)	-	R950	E 605	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R758	E 341	Kenya	5(1)	-	4(2)	3(1)	-	R951	E 606	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R759	E 342	Kenya	5(1)	-	4(2)	3(1)	-	R952	E 607	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R760	E 343	Kenya	5(1)	-	4(2)	3(1)	-	R953	E 608	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R761	E 344	Kenya	5(1)	-	4(2)	3(1)	-	R954	E 609	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R762	E 345	Kenya	5(1)	-	4(2)	3(1)	-	R955	E 610	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R763	E 346	Kenya	5(1)	-	4(2)	3(1)	-	R956	E 611	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R764	E 347	Kenya	5(1)	-	4(2)	3(1)	-	R957	E 612	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R765	E 348	Kenya	5(1)	-	4(2)	3(1)	-	R958	E 613	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R766	E 349	Kenya	5(1)	-	4(2)	3(1)	-	R959	E 614	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R767	E 350	Kenya	5(1)	-	4(2)	3(1)	-	R960	E 615	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R768	E 351	Kenya	5(1)	-	4(2)	3(1)	-	R961	E 616	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R769	E 352	Kenya	5(1)	-	4(2)	3(1)	-	R962	E 617	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R770	E 353	Kenya	5(1)	-	4(2)	3(1)	-	R963	E 618	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R771	E 354	Kenya	5(1)	-	4(2)	3(1)	-	R964	E 619	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R772	E 355	Kenya	5(1)	-	4(2)	3(1)	-	R965	E 620	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R773	E 356	Kenya	5(1)	-	4(2)	3(1)	-	R966	E 621	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R774	E 357	Kenya	5(1)	-	4(2)	3(1)	-	R967	E 622	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R775	E 358	Kenya	5(1)	-	4(2)	3(1)	-	R968	E 623	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R776	E 359	Kenya	5(1)	-	4(2)	3(1)	-	R969	E 624	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R777	E 360	Kenya	5(1)	-	4(2)	3(1)	-	R970	E 625	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R778	E 361	Kenya	5(1)	-	4(2)	3(1)	-	R971	E 626	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R779	E 362	Kenya	5(1)	-	4(2)	3(1)	-	R972	E 627	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R780	E 363	Kenya	5(1)	-	4(2)	3(1)	-	R973	E 628	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R781	E 364	Kenya	5(1)	-	4(2)	3(1)	-	R974	E 629	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R782	E 365	Kenya	5(1)	-	4(2)	3(1)	-	R975	E 630	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R783	E 366	Kenya	5(1)	-	4(2)	3(1)	-	R976	E 631	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R784	E 367	Kenya	5(1)	-	4(2)	3(1)	-	R977	E 632	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R785	E 368	Kenya	5(1)	-	4(2)	3(1)	-	R978	E 633	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R786	E 369	Kenya	5(1)	-	4(2)	3(1)	-	R979	E 634	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R787	E 370	Kenya	5(1)	-	4(2)	3(1)	-	R980	E 635	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R788	E 371	Kenya	5(1)	-	4(2)	3(1)	-	R981	E 636	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R789	E 372	Kenya	5(1)	-	4(2)	3(1)	-	R982	E 637	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R790	E 373	Kenya	5(1)	-	4(2)	3(1)	-	R983	E 638	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R791	E 374	Kenya	5(1)	-	4(2)	3(1)	-	R984	E 639	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R792	E 375	Kenya	5(1)	-	4(2)	3(1)	-	R985	E 640	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R793	E 376	Kenya	5(1)	-	4(2)	3(1)	-	R986	E 641	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R794	E 377	Kenya	5(1)	-	4(2)	3(1)	-	R987	E 642	Kenya	5(1)	-	3(2)	3(2)	5(1)	-	-	
R795	E 378	Kenya	5(1)	-	4(2)	3(1)	-	R988	E 643	Kenya	5(1)	-	3(2					

IS No	Alternative description Identifier	Source country	SF				SD				IS No	Alternative description Identifier	Source country	SF				SD			
			R	PR	DIRS	LPS	DIR	R	PR	DIRS				LPS	DIR	R	PR	DIRS	LPS	DIR	DR
0072	E 517	Kenya	512	511	-	-	511	-	-	0058	E 228	Kenya	512	511	512	512	512	512	512		
0073	E 639	Kenya	512	511	-	-	511	-	-	0059	E 229	Kenya	512	511	512	512	512	512	512		
0074	E 639	Kenya	512	511	321	-	511	-	-	0060	E 230	Kenya	512	511	512	512	512	512	512		
0075	E 040	Kenya	513	-	-	-	511	-	-	0061	E 231	Kenya	511	511	511	511	511	511	511		
0076	E 041	Kenya	452	511	-	-	-	-	-	0062	E 232	Kenya	512	-	511	512	-	-	-		
0077	E 044	Kenya	443	511	-	-	411	511	-	0063	E 233	Kenya	512	-	511	512	-	-	-		
0078	E 046	Kenya	511	511	-	-	-	-	-	0064	E 234	Kenya	511	-	511	512	-	-	-		
0079	E 048	Kenya	511	-	212	-	-	-	-	0065	E 235	Kenya	512	-	511	512	-	-	-		
0080	E 049	Kenya	511	-	-	-	-	-	-	0066	E 236	Kenya	511	-	511	512	-	-	-		
0081	E 051	Kenya	511	511	-	-	-	-	-	0067	E 237	Kenya	511	-	511	512	-	-	-		
0082	E 052	Kenya	511	-	311	-	411	411	-	0068	E 238	Kenya	511	321	511	-	511	-	-		
0083	E 053	Kenya	511	-	212	-	511	-	-	0069	E 239	Kenya	511	-	-	-	-	511	-		
0084	E 054	Kenya	511	-	211	-	512	-	-	0070	E 240	Kenya	511	-	511	512	511	511	-		
0085	E 055	Kenya	511	-	311	-	-	-	-	0071	E 241	Kenya	511	-	511	512	511	-	-		
0086	E 056	Kenya	511	-	-	-	-	-	-	0072	E 242	Kenya	512	511	-	-	-	-	-		
0087	E 057	Kenya	511	-	212	-	-	-	-	0073	E 243	Kenya	511	-	511	512	511	511	-		
0088	E 058	Kenya	511	211	311	-	-	-	-	0074	E 244	Kenya	512	-	-	-	-	511	-		
0089	E 059	Kenya	511	-	311	-	-	-	-	0075	E 245	Kenya	512	-	511	512	511	511	-		
0090	E 060	Kenya	511	-	511	-	-	-	-	0076	E 246	Kenya	512	-	-	-	-	-	-		
0091	E 061	Kenya	511	511	-	-	-	-	-	0078	E 248	Kenya	511	-	411	-	-	-	-		
0092	E 062	Kenya	122	512	411	-	-	-	-	0079	E 249	Kenya	511	-	411	-	-	-	-		
0093	E 063	Kenya	322	511	-	-	-	-	-	0080	E 250	Kenya	511	-	511	512	511	511	-		
0094	E 064	Kenya	411	-	412	-	511	-	-	0081	E 251	Kenya	511	-	-	-	511	-	-		
0095	E 065	Kenya	512	511	-	-	-	-	-	0082	E 252	Kenya	511	-	322	-	-	-	-		
0096	E 066	Kenya	512	511	-	-	-	-	-	0083	E 253	Kenya	511	311	512	511	511	-	-		
0097	E 067	Kenya	512	-	312	-	511	-	-	0084	E 254	Kenya	511	-	511	512	511	511	-		
0098	E 068	Kenya	511	511	212	-	511	-	-	0085	E 255	Kenya	511	-	411	511	-	-	-		
0099	E 069	Kenya	511	-	311	-	-	-	-	0086	E 256	Kenya	511	-	411	511	-	-	-		
0100	E 070	Kenya	511	-	-	-	-	-	-	0087	E 257	Kenya	511	-	411	511	-	-	-		
0101	E 071	Kenya	511	-	312	-	-	-	-	0088	E 258	Kenya	511	-	411	511	-	-	-		
0102	E 072	Kenya	511	-	-	-	-	-	-	0089	E 259	Kenya	511	-	412	511	-	-	-		
0103	E 073	Kenya	511	-	-	-	-	-	-	0090	E 260	Kenya	511	-	511	512	511	511	-		
0104	E 074	Kenya	511	-	-	-	-	-	-	0091	E 261	Kenya	511	-	511	512	511	511	-		
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0107	E 077	Kenya	512	511	-	-	-	-	-	0094	E 264	Kenya	511	-	511	512	511	511	-		
0108	E 078	Kenya	512	511	-	-	-	-	-	0095	E 265	Kenya	511	-	511	512	511	511	-		
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0145	E 115	Kenya	512	-	-	-	-	-	-	0132	E 302	Kenya	511	-	512	-	512	-	-		
0146	E 116	Kenya	512	-	-	-	-	-	-	0133	E 303	Kenya	511	-	512	-	512	-	-		
0147	E 117	Kenya	512	-	-	-	-	-	-	0134	E 304	Kenya	511	-	512	-	512	-	-		
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0149	E 119	Kenya	512	-	-	-	-	-	-	0136	E 306	Kenya	511	-	512	-	512	-	-		
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0151	E 121	Kenya	512	-	-	-	-	-	-	0138	E 308	Kenya	511	-	512	-	512	-	-		
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0153	E 123	Kenya	512	-	-	-	-	-	-	0140	E 310	Kenya	511	-	512	-	512	-	-		
0154	E 124	Kenya	512	-	-	-	-	-	-	0141	E 311	Kenya	511	-	512	-	512	-	-		
0155	E 125	Kenya	512	-	-	-	-	-	-	0142	E 312	Kenya	511	-	512	-	512	-	-		
0156	E 126	Kenya	512	-	-	-	-	-	-	0143	E 313	Kenya	511	-	512	-	512	-	-		
0157	E 127	Kenya	512	-																	

US No	Alternate accession	Source country	R					US No	Alternate accession	Source country	SP					
			R	PR	DS	LS	DR				R	PR	DS	LS	DR	
0510	No 805	South Africa	3(1)	-	3(1)	-	4(2)	5(1)	0601	Thibou	Niger	4(1)	-	1(1)	1(1)	-
0517	No 806	South Africa	5(1)	3(1)	3(1)	1(1)	1(1)	5(1)	0602	Kouassi Nigui	Niger	5(4)	-	1(1)	1(1)	-
0518	No 807	South Africa	5(1)	2(1)	3(1)	-	4(2)	5(1)	0603	Thibou	Niger	5(1)	-	4(1)	1(1)	-
0519	No 808	South Africa	5(1)	-	3(1)	-	3(1)	-	0604	Kouassi	Niger	5(1)	-	1(2)	-	-
0520	No 809	South Africa	5(1)	4(1)	3(2)	-	3(2)	5(1)	0605	De Koning	Niger	5(1)	-	1(1)	1(1)	-
0521	No 810	South Africa	5(1)	-	3(1)	-	4(2)	5(1)	0606	Re	USA	5(1)	5(1)	3(1)	1(1)	-
0522	No 811	South Africa	5(1)	4(1)	3(1)	-	5(1)	-	0607	Uwari Abulu	USA	5(1)	5(1)	2(1)	-	-
0523	No 812	South Africa	5(1)	5(1)	4(1)	-	-	-	0608	Pakistan sugat	Pakistan	5(1)	5(1)	2(1)	-	5(1)
0524	No 813	South Africa	5(1)	-	3(1)	1(1)	-	-	0609	Phingaphilo	India	5(1)	-	1(2)	5(1)	-
0525	No 814	South Africa	5(1)	-	3(1)	5(1)	-	-	0610	125	India	5(1)	4(2)	2(1)	1(1)	-
0526	No 815	South Africa	5(1)	-	4(1)	-	-	-	0611	Sisi 125	Sudan	4(1)	-	1(1)	1(1)	4(1)
0527	No 816	South Africa	4(2)	5(1)	4(1)	-	4(2)	5(1)	0614	Lower 2	Sudan	3(1)	-	2(1)	1(1)	-
0528	No 817	South Africa	3(2)	5(1)	4(1)	-	-	-	0615	Higati	Sudan	4(2)	4(1)	1(1)	1(1)	-
0529	No 818	South Africa	5(1)	-	2(2)	-	3(1)	5(1)	0616	Marin 40	Sudan	3(2)	-	1(1)	1(1)	5(1)
0530	No 819	South Africa	5(1)	2(1)	3(2)	-	4(2)	5(1)	0617	Enfi combie	Sudan	5(2)	2(1)	4(2)	-	3(1)
0531	No 820	South Africa	5(1)	-	3(1)	-	5(1)	-	0618	Kappon	Sudan	5(1)	3(3)	3(1)	-	4(2)
0532	No 821	South Africa	5(1)	-	3(2)	-	-	-	0619	S. Soubre Kafu 4	Sudan	4(2)	4(1)	3(1)	-	4(2)
0533	No 822	South Africa	5(1)	4(1)	3(2)	-	4(2)	5(1)	0620	Dr. Karu 44-14	Sudan	5(2)	4(1)	3(1)	-	4(2)
0534	No 823	South Africa	5(1)	-	4(1)	-	-	-	0621	Headcom	Sudan	5(1)	-	1(1)	-	5(1)
0535	No 824	South Africa	5(1)	-	4(1)	-	-	-	0622	Pitach 5	Sudan	4(2)	-	1(1)	1(1)	-
0536	No 825	South Africa	5(1)	-	3(2)	-	-	-	0623	Pitach 27 E	Sudan	5(2)	4(1)	1(1)	1(1)	5(1)
0537	No 826	South Africa	5(1)	3(1)	4(1)	-	5(1)	-	0624	W. KSA 50/2-240	Sudan	5(2)	2(1)	3(1)	-	4(2)
0538	No 827	South Africa	5(1)	-	3(2)	5(1)	-	-	0625	h.P.M 57164	Sudan	3(2)	-	1(1)	1(1)	5(1)
0539	No 828	South Africa	5(1)	2(1)	3(2)	4(2)	5(1)	-	0626	R. K. Kallu	Sudan	4(1)	4(1)	3(2)	-	4(2)
0540	No 829	South Africa	5(1)	4(1)	3(1)	3(2)	5(1)	-	0627	K. Soubre Kafu	Sudan	5(1)	4(2)	2(4)	-	4(2)
0541	No 830	South Africa	4(1)	-	4(2)	-	5(1)	-	0628	K. Soubre	Sudan	5(1)	-	1(1)	1(1)	5(1)
0542	No 831	South Africa	5(1)	-	3(1)	-	5(1)	-	0629	TS A	Sudan	4(2)	-	1(1)	3(1)	5(1)
0543	No 832	South Africa	5(1)	3(1)	4(1)	-	5(1)	-	0630	Dr. Soubre Kafu	Sudan	5(1)	-	1(1)	-	4(2)
0544	No 833	South Africa	5(1)	4(1)	3(1)	-	5(1)	-	0632	P.H. 44-15-187	Sudan	5(2)	3(1)	1(1)	-	4(2)
0545	No 834	South Africa	5(1)	-	4(1)	-	4(2)	5(1)	0633	Musomulo	Sudan	4(1)	-	4(1)	-	4(2)
0546	No 835	South Africa	5(1)	-	3(1)	-	-	-	0634	Plumtree	Sudan	5(1)	-	1(1)	2(1)	5(1)
0547	No 836	South Africa	5(1)	2(1)	3(1)	-	-	-	0635	Unknown	Sudan	5(1)	-	1(1)	1(1)	5(1)
0548	No 837	South Africa	5(1)	-	3(1)	-	-	-	0636	homo	Sudan	5(2)	-	1(1)	1(1)	5(1)
0549	No 838	South Africa	5(1)	-	3(2)	4(1)	5(1)	-	0637	S. Soubre 177	Sudan	2(1)	3(1)	1(1)	1(1)	-
0550	No 839	South Africa	5(1)	-	3(1)	-	5(1)	-	0638	h. Soubre 451	Sudan	4(1)	-	3(1)	3(1)	-
0551	No 840	South Africa	4(1)	-	3(1)	-	-	-	0639	K. Soubre 141	Sudan	5(1)	-	1(2)	1(1)	5(1)
0552	No 841	South Africa	5(1)	4(1)	3(1)	-	4(2)	5(1)	0641	Boscon	Sudan	5(1)	-	1(3)	3(1)	5(1)
0553	No 842	South Africa	5(1)	2(1)	3(1)	-	3(2)	5(1)	0642	h. Soubre	Sudan	5(1)	-	1(2)	4(1)	-
0554	No 843	South Africa	5(1)	3(1)	4(1)	-	5(1)	-	0643	h. Soubre	Sudan	5(1)	-	1(1)	1(1)	5(1)
0555	No 844	South Africa	5(1)	3(1)	1(1)	4(1)	5(1)	-	0644	FX. Kuru	Sudan	5(2)	4(1)	1(1)	1(2)	5(2)
0556	No 845	South Africa	5(1)	3(1)	1(1)	4(1)	5(1)	-	0645	M. Soubre	Sudan	5(1)	-	3(1)	-	-
0557	No 846	South Africa	5(1)	-	4(1)	-	5(1)	5(1)	0646	h. Soubre	Sudan	5(1)	-	3(1)	3(1)	5(1)
0558	No 847	South Africa	5(1)	-	4(1)	-	-	-	0647	h. Soubre	Sudan	4(2)	3(1)	3(2)	-	4(2)
0559	No 848	South Africa	5(1)	4(1)	3(2)	-	5(1)	-	0648	Uwari h. Soubre	Sudan	5(1)	-	3(2)	-	5(1)
0560	No 849	South Africa	5(1)	3(1)	3(1)	-	5(1)	-	0649	Enzi h. Soubre	Sudan	5(1)	-	3(1)	-	4(2)
0561	No 850	South Africa	5(1)	-	2(1)	-	5(1)	5(1)	0650	h. Soubre	Sudan	5(1)	-	4(1)	5(1)	5(1)
0562	No 851	South Africa	5(1)	4(1)	3(1)	-	-	-	0651	CD hybrid	Sudan	5(2)	3(1)	3(1)	-	4(2)
0563	No 852	South Africa	5(1)	4(1)	3(1)	-	5(1)	-	0652	h. Soubre	Sudan	5(1)	-	3(1)	-	4(1)
0564	No 853	South Africa	5(1)	-	3(1)	-	5(1)	-	0653	h. Soubre	Sudan	5(1)	-	2(1)	1(1)	5(1)
0565	No 854	South Africa	5(1)	-	3(1)	-	-	-	0654	h. Soubre	Sudan	4(2)	3(1)	1(1)	1(1)	-
0566	No 855	South Africa	5(1)	-	4(1)	-	5(1)	-	0655	h. Soubre	Sudan	3(3)	3(1)	1(1)	1(1)	-
0567	No 856	South Africa	5(1)	-	4(1)	-	5(1)	-	0656	h. Soubre	Sudan	3(1)	-	2(1)	1(1)	5(1)
0568	No 857	South Africa	5(1)	-	3(1)	-	5(1)	5(1)	0658	T. Reids ID Jack	Sudan	4(1)	-	1(1)	1(1)	4(2)
0569	No 858	South Africa	5(1)	-	3(1)	-	-	-	0659	T. Reids ID 111	Sudan	4(1)	-	1(1)	1(1)	4(2)
0570	No 859	South Africa	5(1)	-	4(1)	-	-	-	0660	Nigari rubra	Sudan	3(2)	-	1(1)	1(1)	5(1)
0571	No 860	South Africa	5(1)	-	3(2)	5(1)	-	-	0661	h. Soubre	Sudan	4(1)	-	3(1)	1(1)	5(1)
0572	No 861	South Africa	5(1)	3(1)	4(1)	-	5(1)	-	0662	h. Soubre	Sudan	2(1)	-	1(1)	1(1)	5(1)
0573	No 862	South Africa	5(1)	5(1)	1(1)	1(1)	1(1)	5(1)	0663	h. Soubre	Sudan	2(1)	-	2(1)	1(1)	4(2)
0574	No 863	South Africa	5(1)	-	3(2)	-	5(1)	-	0664	h. Soubre	Sudan	4(1)	-	3(2)	-	3(1)
0575	No 864	South Africa	5(1)	-	3(1)	-	4(2)	5(1)	0665	h. Soubre	Sudan	5(1)	-	3(1)	-	4(2)
0576	No 865	South Africa	5(1)	-	3(1)	-	5(1)	5(1)	0666	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0577	No 866	South Africa	5(1)	3(1)	3(1)	-	5(1)	-	0667	h. Soubre	Sudan	4(1)	-	3(1)	-	5(1)
0578	No 867	South Africa	5(1)	-	3(1)	-	5(1)	-	0668	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0579	No 868	South Africa	5(1)	-	3(1)	-	5(1)	-	0669	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0580	No 869	South Africa	5(1)	-	3(1)	-	5(1)	-	0670	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0581	No 870	South Africa	5(1)	-	3(1)	-	5(1)	-	0671	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0582	No 871	South Africa	5(1)	-	3(1)	-	5(1)	-	0672	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0583	No 872	South Africa	5(1)	-	3(1)	-	5(1)	-	0673	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0584	No 873	South Africa	5(1)	-	3(1)	-	5(1)	-	0674	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0585	No 874	South Africa	5(1)	-	3(1)	-	5(1)	-	0675	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0586	No 875	South Africa	5(1)	-	3(1)	-	5(1)	-	0676	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0587	No 876	South Africa	5(1)	-	3(1)	-	5(1)	-	0677	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0588	No 877	South Africa	5(1)	-	3(1)	-	5(1)	-	0678	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0589	No 878	South Africa	5(1)	-	3(1)	-	5(1)	-	0679	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0590	No 879	South Africa	5(1)	-	3(1)	-	5(1)	-	0680	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0591	No 880	South Africa	5(1)	-	3(1)	-	5(1)	-	0681	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0592	No 881	South Africa	5(1)	-	3(1)	-	5(1)	-	0682	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0593	No 882	South Africa	5(1)	-	3(1)	-	5(1)	-	0683	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0594	No 883	South Africa	5(1)	-	3(1)	-	5(1)	-	0684	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0595	No 884	South Africa	5(1)	-	3(1)	-	5(1)	-	0685	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0596	No 885	South Africa	5(1)	-	3(1)	-	5(1)	-	0686	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0597	No 886	South Africa	5(1)	-	3(1)	-	5(1)	-	0687	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0598	No 887	South Africa	5(1)	-	3(1)	-	5(1)	-	0688	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0599	No 888	South Africa	5(1)	-	3(1)	-	5(1)	-	0689	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)
0600	No 889	South Africa	5(1)	-	3(1)	-	5(1)	-	0690	h. Soubre	Sudan	5(1)	-	3(1)	-	5(1)

IS No	Alternative accession identifier	Source country	SI					HS No					Alternative accession identifier	Source country	SI					HS No			
			R	PR	DIS	LFS	DR	DR	R	PR	DIS	LFS			DR	DR	R	PR	DIS		LFS	DR	DR
0689	Bot king	Sudan	0/0	-	-	-	-	5/10	-	-	-	0774	Mesona	Sudan	0/0	-	-	-	-	-	1/1	1/1	
0690	Dhana 1	Sudan	2/10	-	-	-	-	1/10	1/10	1/10	-	0775	Mouzaq	Sudan	0/0	-	-	-	-	-	-	-	
0691	Dhana 2	Sudan	5/2	4/10	1/10	1/10	5/10	-	-	-	0776	Nagad gey	Sudan	0/10	-	-	-	-	-	1/1	2/10	3/20	5/10
0692	Amang	Sudan	0/0	5/10	0/20	1/10	6/0	5/20	-	-	0777	Payan bau	Sudan	5/0	-	-	-	-	-	1/1	1/1	5/0	-
0693	Calam bread	Sudan	0/0	-	-	-	-	-	-	-	0778	Qary 7	Sudan	4/20	4/10	-	-	-	-	1/1	1/1	5/1	-
0694	Calam lunata	Sudan	5/10	-	-	-	-	5/10	-	-	0779	Qary 7	Sudan	4/20	-	-	-	-	-	-	-	-	-
0695	Calam album	Sudan	5/1	5/10	-	-	-	5/10	-	-	0780	Qary 3	Sudan	4/10	-	-	-	-	-	1/1	2/1	3/1	-
0696	Calam	Sudan	5/10	-	-	-	-	5/10	-	-	0781	Qary 3	Sudan	4/10	-	-	-	-	-	1/1	1/1	5/1	5/1
0697	Chakras	Sudan	5/10	-	-	-	-	5/10	-	-	0782	Ras of Chad	Sudan	2/10	-	-	-	-	-	1/1	3/1	5/1	4/1
0698	Awil	Sudan	5/10	-	-	-	-	5/10	5/10	-	0783	Staf	Sudan	2/10	-	-	-	-	-	-	5/0	-	-
0699	Fezzari	Sudan	5/10	-	-	-	-	5/10	5/10	5/10	0784	Sfina white mile	Sudan	3/10	5/10	2/10	3/10	4/10	5/10	-	-	-	5/1
0700	El fadyan	Sudan	5/10	-	-	-	-	5/10	5/10	5/10	0785	Sulaw purple	Sudan	3/10	-	-	-	-	-	-	-	-	-
0701	Am shukh shiti	Sudan	4/10	-	-	-	-	4/10	5/10	-	0786	Torok	Sudan	4/10	-	-	-	-	-	4/1	3/10	-	-
0702	Call	Sudan	5/10	-	-	-	-	5/10	5/10	-	0787	Wad nkar 2	Sudan	4/10	-	-	-	-	-	4/10	1/10	5/10	5/10
0703	Nayan jang	Sudan	5/10	-	-	-	-	5/10	5/10	5/10	0788	Wad nkar 3	Sudan	4/20	-	-	-	-	-	4/10	1/10	1/10	5/10
0704	Rakawalin	Sudan	5/10	-	-	-	-	5/10	5/10	-	0789	Wad nkar 5	Sudan	4/20	-	-	-	-	-	4/10	1/10	1/10	5/10
0705	Kadde	Sudan	5/10	-	-	-	-	5/10	-	-	0790	Wad nkar 6	Sudan	4/20	-	-	-	-	-	4/10	1/10	1/10	5/10
0706	Dakshi	Sudan	4/10	4/10	1/10	1/10	-	-	-	-	0791	Wad nkar	Sudan	4/10	-	-	-	-	-	4/10	1/10	1/10	5/10
0707	Avettegga	Sudan	4/10	-	-	-	-	4/10	5/10	-	0792	Wad nkar	Sudan	4/10	-	-	-	-	-	5/10	1/10	4/20	5/10
0709	K-dakak	Sudan	4/10	-	-	-	-	4/10	5/10	-	0793	Wad nkar	Sudan	4/10	-	-	-	-	-	1/10	1/10	5/10	-
0710	El fadyan	Sudan	4/10	-	-	-	-	4/10	5/10	5/10	0794	Wad nkar	Sudan	4/10	4/20	-	-	-	-	1/10	1/10	5/10	-
0711	Alho san	Sudan	5/10	-	-	-	-	5/10	-	-	0795	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0711	Shawshin	Sudan	4/10	-	-	-	-	4/10	5/10	-	0796	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0714	El fadyan	Sudan	5/10	-	-	-	-	5/10	-	-	0797	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0714	Rugan jhmer	Sudan	5/10	-	-	-	-	5/10	-	-	0798	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0716	Ahu kador	Sudan	5/10	-	-	-	-	5/10	-	-	0799	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0717	El fadyan	Sudan	5/10	-	-	-	-	5/10	-	-	0800	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0718	El fadyan	Sudan	5/10	-	-	-	-	5/10	-	-	0801	Wad nkar	Sudan	4/10	-	-	-	-	-	-	-	-	-
0719	Mughann white	Sudan	5/20	3/10	1/10	1/10	5/20	5/10	-	-	0802	Wad nkar	Sudan	5/10	4/10	-	-	-	-	5/10	5/10	5/10	5/10
0720	Aljan	Sudan	5/10	-	-	-	-	5/10	5/10	-	0803	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0721	Karrimkan	Sudan	5/10	-	-	-	-	5/10	-	-	0804	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0722	Ganaba	Sudan	5/10	-	-	-	-	5/10	-	-	0805	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0723	Wad alkan	Sudan	4/10	-	-	-	-	4/10	5/10	5/10	0806	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0724	El fadyan	Sudan	5/10	-	-	-	-	5/10	5/10	5/10	0807	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0725	El fadyan	Sudan	5/10	-	-	-	-	5/10	5/10	5/10	0808	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0726	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0809	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0727	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0810	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0728	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0811	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0729	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0812	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0730	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0813	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0731	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0814	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0732	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0815	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0733	Ferrita fayman	Sudan	5/10	-	-	-	-	5/10	-	-	0816	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0734	Mahad alshukh	Sudan	5/10	-	-	-	-	5/10	-	-	0817	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0735	Madud nuz	Sudan	5/10	-	-	-	-	5/10	-	-	0818	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0736	Lambis	Sudan	5/10	-	-	-	-	5/10	-	-	0819	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0737	Abu chabulun	Sudan	5/10	4/10	1/10	1/10	4/10	5/10	-	-	0820	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0738	Alkan	Sudan	5/10	-	-	-	-	5/10	-	-	0821	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0739	Alkan	Sudan	5/10	-	-	-	-	5/10	-	-	0822	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0740	Alkan	Sudan	5/10	-	-	-	-	5/10	-	-	0823	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0741	Alkan	Sudan	5/10	-	-	-	-	5/10	-	-	0824	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0742	Alkan	Sudan	5/10	-	-	-	-	5/10	-	-	0825	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0743	Kabi	Sudan	5/20	5/10	1/10	1/10	5/20	-	-	-	0826	Wad nkar	Sudan	5/10	5/10	4/20	1/10	1/10	5/10	5/10	5/10	5/10	
0744	El alba	Sudan	5/10	-	-	-	-	5/10	-	-	0827	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0745	Dhana 2	Sudan	4/10	-	-	-	-	4/10	-	-	0828	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0746	Dhana 3	Sudan	4/10	-	-	-	-	4/10	-	-	0829	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0747	Been	Sudan	4/10	-	-	-	-	4/10	-	-	0830	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0748	Bergala abana	Sudan	5/10	-	-	-	-	5/10	-	-	0831	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0749	Dhanaka grey	Sudan	5/10	-	-	-	-	5/10	-	-	0832	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0750	DS 7	Sudan	5/10	-	-	-	-	5/10	-	-	0833	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0751	DS 8	Sudan	5/10	-	-	-	-	5/10	-	-	0834	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0752	DS 10	Sudan	5/10	-	-	-	-	5/10	-	-	0835	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0753	DS 12	Sudan	5/20	4/10	1/10	1/10	5/20	-	-	-	0836	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0754	DS 14	Sudan	5/20	5/10	1/10	1/10	5/20	-	-	-	0837	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0755	DS 18	Sudan	5/10	-	-	-	-	5/10	-	-	0838	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0756	DS 19	Sudan	5/10	-	-	-	-	5/10	-	-	0839	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0757	Ferrita dwarf 002	Sudan	4/10	-	-	-	-	4/10	-	-	0840	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0758	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0841	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0759	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0842	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0760	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0843	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0761	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0844	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0762	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0845	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0763	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0846	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0764	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0847	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0765	Ferrita fluffy skin	Sudan	4/10	-	-	-	-	4/10	-	-	0848	Wad nkar	Sudan	5/10	-	-	-	-	-	-	-	-	-
0766	Kadde	Sudan	4/10	-	-	-	-	4/10	-</														

IS No	Alternative accession identifier	Source country	SP					IS No	Alternative accession identifier	Source country	SP				
			R	FR	DMIS	LFS	DR				R	FR	DMIS	LFS	DR
0060	A 54	Sudan	4(1)		(13)	(11)	(11)	0055	B 135	Sudan	4(2)	FR	(11)	(11)	(11)
0061	A 55	Sudan	5(1)		(13)	(11)	(11)	0056	B 138	Sudan	2(1)		(11)	(11)	(11)
0062	A 56	Sudan	5(2)	4(1)	(21)	(11)	(11)	0057	B 141	Sudan	5(2)	4(2)	(11)		(4)
0063	A 57	Sudan			(21)	(11)	(11)	0058	B 143	Sudan	4(2)	FR	(11)		(1)
0064	A 58	Sudan	4(1)		(13)	(11)	(11)	0059	B 146	Sudan	2(1)		(11)	(11)	(11)
0065	A 59	Sudan			(2)			0060	B 174	Sudan	3(1)	FR	(11)		(1)
0066	A 72	Sudan	3(1)	5(1)	(12)			0061	B 177	Sudan	4(1)		(11)	(11)	(12)
0067	A 74	Sudan	3(1)	5(1)	(12)	(11)		0062	B 181	Sudan	4(2)		(11)	(11)	(11)
0068	A 82	Sudan	4(1)		(13)			0063	B 182	Sudan	4(2)		(11)	(11)	(11)
0069	A 87	Sudan	4(2)	5(1)	(11)		(11)	0064	B 187	Sudan	3(1)		(11)	(11)	(11)
0070	A 88	Sudan	5(2)	5(1)	(12)	(11)	(11)	0065	B 187	Sudan	3(1)		(11)	(11)	(11)
0071	A 89	Sudan	5(2)	5(1)	(12)	(11)	(11)	0066	B 195	Sudan	3(1)		(11)	(11)	(11)
0072	A 90	Sudan	5(2)	4(1)	(12)		(12)	0067	B 204	Sudan	3(1)		(11)	(11)	(11)
0073	A 91	Sudan	(1)		(11)	(11)	(11)	0068	B 227	Sudan	3(1)		(11)	(11)	(11)
0074	A 94	Sudan	4(1)		(13)	(11)	(11)	0069	Wad aln	Sudan	3(1)		(11)	(11)	(11)
0075	A 97	Sudan	3(1)		(13)	(11)	(11)	0070	Egyptia 16	Sudan	4(1)		(11)	(11)	(11)
0076	A 98	Sudan	4(1)		(13)	(11)	(11)	0071	B 262	Sudan	2(1)		(11)	(11)	(11)
0077	A 99	Sudan	4(1)		(13)	(11)	(11)	0072	A 92	Sudan	2(1)		(11)	(11)	(11)
0078	A 102	Sudan	3(1)		(13)	(11)	(11)	0073	A 32	Sudan	3(2)	FR	(11)	(11)	(11)
0079	A 104	Sudan	4(1)		(13)	(11)	(11)	0074	A 35	Sudan	3(1)		(11)	(11)	(11)
0080	A 105	Sudan	3(1)		(13)	(11)	(11)	0075	Forchala	Sudan	2(1)		(11)	(11)	(11)
0081	A 106	Sudan	3(1)		(13)	(11)	(11)	0076	Forchala	Sudan	2(1)		(11)	(11)	(11)
0082	A 107	Sudan	3(2)	4(1)	(12)	(11)	(11)	0077	Egyptia 191	Sudan	4(1)		(11)	(11)	(11)
0083	A 124	Sudan	4(1)		(13)	(11)	(11)	0078	FX 16	Sudan	4(1)		(11)	(11)	(11)
0084	A 141	Sudan	3(2)	4(1)	(12)	(11)	(11)	0079	Wad aln white	Sudan	3(1)		(11)	(11)	(11)
0085	A 142	Sudan	3(2)	4(1)			(11)	0080	Wad aln red	Sudan	3(1)		(11)	(11)	(11)
0086	A 143	Sudan	5(2)	5(1)	(12)	(11)	(11)	0081	Wad Labal	Sudan	4(2)	4(1)	(11)	(11)	(11)
0087	A 154	Sudan	5(2)	5(1)	(12)	(11)	(11)	0082	Lebeck	Sudan	3(1)		(11)	(11)	(11)
0088	A 157	Sudan	3(1)				(11)	0083	Mingud white	Sudan	3(2)	FR	(11)	(11)	(11)
0089	A 158	Sudan	3(2)	(1)	(11)	(11)	(11)	0084	Sufra	Sudan	3(2)	FR	(11)	(11)	(11)
0090	A 168	Sudan	4(1)		(13)	(11)	(11)	0085	Pistonia maritima	Sudan	4(1)		(11)	(11)	(11)
0091	A 169	Sudan	4(1)		(13)	(11)	(11)	0086	Pistonia maritima	Sudan	3(1)	FR	(11)	(11)	(11)
0092	A 181	Sudan	4(1)		(13)	(11)	(11)	0087	Pistonia maritima	Sudan	3(1)	FR	(11)	(11)	(11)
0093	A 185	Sudan	3(1)		(13)	(11)	(11)	0088	Abu 20	Sudan	2(1)		(11)	(11)	(11)
0094	A 192	Sudan	4(1)		(13)			0089	Jokiba	Sudan	3(2)		(11)	(11)	(11)
0095	A 210	Sudan	4(2)	5(1)	(11)	(11)	(11)	0090	Adhis 19	Ethiopia	4(2)		(11)	(11)	(11)
0096	A 211	Sudan	4(1)		(13)	(11)	(11)	0091	Adhis 20	Ethiopia	5(1)		(11)	(11)	(11)
0097	A 212	Sudan	4(1)				(11)	0092	Adhis 21	Ethiopia	4(2)		(11)	(11)	(11)
0098	A 213	Sudan	4(1)		(13)	(11)	(11)	0093	D2 1014-9	Ethiopia	4(2)	FR	(11)	(11)	(11)
0099	A 214	Sudan	2(1)		(13)	(11)	(11)	0094	D2 1014-10	Ethiopia	4(1)		(11)	(11)	(11)
0100	A 215	Sudan	4(1)		(13)	(11)	(11)	0095	D2 1014-15	Ethiopia	4(1)		(11)	(11)	(11)
0101	A 216	Sudan	4(1)		(13)	(11)	(11)	0096	D2 1014-16	Ethiopia	4(1)		(11)	(11)	(11)
0102	A 217	Sudan	4(1)		(13)	(11)	(11)	0097	D2 1014-17	Ethiopia	4(1)		(11)	(11)	(11)
0103	A 218	Sudan	4(1)		(13)	(11)	(11)	0098	D2 1014-18	Ethiopia	4(2)	FR	(11)	(11)	(11)
0104	A 219	Sudan	4(1)		(13)	(11)	(11)	0099	D2 1014-19	Ethiopia	4(1)		(11)	(11)	(11)
0105	A 220	Sudan	2(1)		(13)	(11)	(11)	0100	D2 1014-20	Ethiopia	4(1)	FR	(11)	(11)	(11)
0106	A 241	Sudan	3(1)		(13)	(11)	(11)	0101	D2 1014-21	Ethiopia	4(1)	FR	(11)	(11)	(11)
0107	A 246	Sudan	3(1)		(13)	(11)	(11)	0102	D2 1014-22	Ethiopia	3(1)	FR	(11)	(11)	(11)
0108	A 262	Sudan	3(1)		(13)	(11)	(11)	0103	D2 1014-23	Ethiopia	3(1)	FR	(11)	(11)	(11)
0109	A 263	Sudan	5(2)	4(1)	(12)	(11)	(11)	0104	D2 1014-24	Ethiopia	4(1)	FR	(11)	(11)	(11)
0110	A 264	Sudan	3(1)		(13)	(11)	(11)	0105	D2 1014-25	Ethiopia	4(1)	FR	(11)	(11)	(11)
0111	A 265	Sudan	3(1)		(13)	(11)	(11)	0106	D2 1014-26	Ethiopia	3(1)	FR	(11)	(11)	(11)
0112	A 266	Sudan	5(2)	4(1)	(12)	(11)	(11)	0107	D2 1014-27	Ethiopia	3(1)	FR	(11)	(11)	(11)
0113	A 267	Sudan	3(1)		(13)	(11)	(11)	0108	D2 1014-28	Ethiopia	3(1)	FR	(11)	(11)	(11)
0114	A 268	Sudan	3(1)		(13)	(11)	(11)	0109	D2 1014-29	Ethiopia	3(1)	FR	(11)	(11)	(11)
0115	A 269	Sudan	3(1)		(13)	(11)	(11)	0110	D2 1014-30	Ethiopia	3(1)	FR	(11)	(11)	(11)
0116	A 301	Sudan	3(1)		(13)	(11)	(11)	0111	D2 1014-31	Ethiopia	3(1)	FR	(11)	(11)	(11)
0117	A 329	Sudan	4(1)		(13)	(11)	(11)	0112	D2 1014-32	Ethiopia	4(1)	FR	(11)	(11)	(11)
0118	A 378	Sudan	4(1)		(13)	(11)	(11)	0113	D2 1014-33	Ethiopia	4(1)	FR	(11)	(11)	(11)
0119	A 379	Sudan	3(2)	3(2)	(11)	(11)	(11)	0114	D2 1014-34	Ethiopia	4(2)	FR	(11)	(11)	(11)
0120	A 381	Sudan	4(1)		(13)	(11)	(11)	0115	D2 1014-35	Ethiopia	4(1)		(11)	(11)	(11)
0121	A 382	Sudan	4(1)		(13)	(11)	(11)	0116	D2 1014-36	Ethiopia	5(1)		(11)	(11)	(11)
0122	A 383	Sudan	4(1)		(13)	(11)	(11)	0117	D2 1014-37	Ethiopia	5(1)		(11)	(11)	(11)
0123	A 384	Sudan	4(1)		(13)	(11)	(11)	0118	D2 1014-38	Ethiopia	5(1)		(11)	(11)	(11)
0124	A 385	Sudan	4(1)		(13)	(11)	(11)	0119	D2 1014-39	Ethiopia	5(1)		(11)	(11)	(11)
0125	A 386	Sudan	4(1)		(13)	(11)	(11)	0120	D2 1014-40	Ethiopia	5(1)		(11)	(11)	(11)
0126	A 387	Sudan	4(1)		(13)	(11)	(11)	0121	D2 1014-41	Ethiopia	5(1)		(11)	(11)	(11)
0127	A 388	Sudan	4(1)		(13)	(11)	(11)	0122	D2 1014-42	Ethiopia	5(1)		(11)	(11)	(11)
0128	A 389	Sudan	4(1)		(13)	(11)	(11)	0123	D2 1014-43	Ethiopia	5(1)		(11)	(11)	(11)
0129	A 390	Sudan	4(1)		(13)	(11)	(11)	0124	D2 1014-44	Ethiopia	5(1)		(11)	(11)	(11)
0130	A 391	Sudan	4(1)		(13)	(11)	(11)	0125	D2 1014-45	Ethiopia	5(1)		(11)	(11)	(11)
0131	A 392	Sudan	4(1)		(13)	(11)	(11)	0126	D2 1014-46	Ethiopia	5(1)		(11)	(11)	(11)
0132	A 393	Sudan	4(1)		(13)	(11)	(11)	0127	D2 1014-47	Ethiopia	5(1)		(11)	(11)	(11)
0133	A 394	Sudan	4(1)		(13)	(11)	(11)	0128	D2 1014-48	Ethiopia	5(1)		(11)	(11)	(11)
0134	A 395	Sudan	4(1)		(13)	(11)	(11)	0129	D2 1014-49	Ethiopia	5(1)		(11)	(11)	(11)
0135	A 396	Sudan	4(1)		(13)	(11)	(11)	0130	D2 1014-50	Ethiopia	5(1)		(11)	(11)	(11)
0136	A 397	Sudan	4(1)		(13)	(11)	(11)	0131	D2 1014-51	Ethiopia	5(1)		(11)	(11)	(11)
0137	A 398	Sudan	4(1)		(13)	(11)	(11)	0132	D2 1014-52	Ethiopia	5(1)		(11)	(11)	(11)
0138	A 399	Sudan	4(1)		(13)	(11)	(11)	0133	D2 1014-53	Ethiopia	5(1)		(11)	(11)	(11)
0139	A 400	Sudan	4(1)		(13)	(11)	(11)	0134	D2 1014-54	Ethiopia	5(1)		(11)	(11)	(11)
0140	A 401	Sudan	4(1)		(13)	(11)	(11)	0135	D2 1014-55	Ethiopia	5(1)		(11)	(11)	(11)
0141	A 402	Sudan	4(1)		(13)	(11)	(11)	0136	D2 1014-56	Ethiopia	5(1)		(11)	(11)	(11)
0142	A 403	Sudan	4(1)		(13)	(11)	(11)	0137	D2 1014-57	Ethiopia	5(1)		(11)	(11)	(11)
0143	A 404	Sudan	4(1)		(13)	(11)	(11)	0138	D2 1014-58	Ethiopia	5(1)		(11)	(11)	(11)
0144	A 405	Sudan	4(1)		(13)	(11)	(11)	0139	D2 1014-59	Ethiopia	5(1)		(11)	(11)	(11)
0145	A 406	Sudan	4(1)		(13)	(11)	(11)	0140	D2 1014-60	Ethiopia	5(1)		(11)	(11)	(11)
0146	A 407	Sudan	4(1)		(13)	(11)	(11)	0141	D2 1014-61	Ethiopia	5(1)		(11)	(11)	(11)
0147	A 408	Sudan	4(1)		(13)	(11)	(11)	0142	D2 1014-62	Ethiopia	5(1)		(11)	(11)	(11)
0148	A 409	Sudan	4(1)		(13)	(11)	(11)	0143	D2 1014-63	Ethiopia	5(1)		(11)	(11)	(11)
0149	A 410	Sudan	4(1)		(13)	(11)	(11)	0144	D2 1014-64	Ethiopia	5(1)		(11)	(11)	(11)
0150	A 411	Sudan	4(1)		(13)	(11)	(11)	0145	D2 1014-65	Ethiopia	5(1)		(11)	(11)	(11)
0151	A 412	Sudan	4(1)		(13)	(11)	(11)	0146	D2 1014-66	Ethiopia	5(1)		(11)	(11)	(11)
0152	A 413	Sudan	4(1)		(13)	(11)	(11)	0147	D2 1014-67	Ethiopia	5(1)		(11)	(11)	(11)
0153	A 414	Sudan	4(1)		(13)	(11)	(11)	0148	D2 1014-68	Ethiopia	5(1)		(11)	(11)	(11)
0154	A 415	Sudan	4(1)		(13)	(11)	(11)	0149	D2 1014-69	Ethiopia	5(1)		(11)	(11)	(11)
0155	A 416	Sudan	4(1)		(13)	(11)	(11)	0150	D2 1014-70	Ethiopia	5(1)		(11)	(11)	(11)
0156	A 417	Sudan	4(1)		(13)	(11)	(11)	0151	D2 1014-71	Ethiopia	5(1)		(11)	(11)	(11)
0157	A 418	Sudan	4(1)		(13)	(11)	(11)	0152	D2 1014-72	Ethiopia	5(1)		(11)	(11)	(11)
0158	A 419	Sudan	4(1)		(13)	(1									

IN No	Airmar name accession number	Source country	SE						SI						
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0030	SPN 18 Yipes 1818	USA	512	411	442	512	1020	Col No 198	Ethiopia	511	511				
0031	SPN 18 Yipes 1818	USA	512	411	442	512	1020	Col No 20 B	Ethiopia	511					
0032	SPN 18 Yipes 1818	USA	511	411	442	511	1022	Col No 21 B	Ethiopia	511					
0033	SPN 18 Yipes 1818	USA	512	411	442	512	1021	Col No 22 B	Ethiopia	511					
0034	SPN 18 Yipes 1818	USA	511	411	442	511	1024	Col No 23 B	Ethiopia	511					
0035	SPN 18 Yipes 1818	USA	511	411	442	511	1025	Col No 24 B	Ethiopia	511					
0036	SPN 18 Yipes 1818	USA	511	411	442	511	1026	Col No 25 B	Ethiopia	511					
0037	SPN 18 Yipes 1818	USA	511	411	442	511	1027	Col No 26 B	Ethiopia	511					
0038	SPN 18 Yipes 1818	USA	512	411	442	512	1028	Col No 27 B	Ethiopia	511					
0039	SPN 18 Yipes 1818	USA	511	411	442	511	1029	Col No 28 B	Ethiopia	511					
0040	Teaching No 1	China	511	411	441	511	1030	Col No 29 B	Ethiopia	511		511			
0041	Teaching No 2	China	511	411	441	511	1031	Col No 32 B	Ethiopia	511		511			
0042	Dwarf antine (US5)	USA	523	411	411	523	1033	Col No 35 B	Ethiopia	511		511			
0043	811-7111	USA	511	411	411	511	1034	Col No 36 B	Ethiopia	421					
0044	6012 (USDA-NR0)	USA	511	411	411	511	1035	Col No 38 B	Ethiopia	511		511			
0046	Unk.nown	USA	511	411	411	511	1036	Col No 39 B	Ethiopia	511					
0047	Unk.nown	USA	511	411	411	511	1037	Col No 40 B	Ethiopia	511					
0048	Unk.nown	USA	511	411	411	511	1038	Col No 41 B	Ethiopia	511					
0049	Unk.nown	USA	511	411	411	511	1039	Col No 42 B	Ethiopia	511		411		511	
0050	Unk.nown	USA	512	411	411	512	1040	Col No 43 B	Ethiopia	511					
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0094	Unk.nown	USA	511	411	411	511	1094	Col No 150 B	Ethiopia	511		511			
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0099	Unk.nown	USA	512	411	411	512	1101	Col No 154 B	Ethiopia	511					
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1117	Col No 161 B	Ethiopia	511	411	411	511	1116	Col No 171 B	Ethiopia	421					
1118	Col No 171 B	Ethiopia	511	411	411	511	1117	Col No 172 B	Ethiopia	511					
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IS No	Alternative accession identifier	Source country	SF						IS No	Alternative accession identifier	Source country	SF					
			R	PR	DHS	LES	MIS	THS				R	PR	DHS	LES	MIS	THS
1106	Col No 608 B	Ethiopia	-	411	3(1)	-	-	1184	Col No 814 B	Ethiopia	5(1)	-	-	-	-		
1107	Col No 609 B	Ethiopia	-	411	-	-	-	1240	Col No 815 B	Ethiopia	5(1)	-	M(1)	-	3(1)		
1109	Col No 672 B	Ethiopia	-	4(1)	-	-	-	1206	Col No 816 B	Ethiopia	5(1)	-	-	-	-		
1130	Col No 676 B	Ethiopia	5(1)	3(1)	-	-	-	1407	Col No 818 B	Ethiopia	5(1)	-	-	-	-		
1131	Col No 678 B	Ethiopia	-	4(1)	-	-	-	1149	PT 32067	Ethiopia	5(1)	-	5(1)	-	-		
1142	Col No 679 B	Ethiopia	-	4(1)	-	-	-	1410	PT 42068	Ethiopia	5(1)	-	-	-	-		
1143	Col No 680 B	Ethiopia	-	5(1)	-	-	-	1411	PT 32069	Ethiopia	5(1)	-	-	-	-		
1144	Col No 681 B	Ethiopia	-	4(1)	4(1)	-	-	1412	Col No 825 B	Ethiopia	5(1)	-	-	-	-		
1147	Col No 684 B	Ethiopia	2(1)	5(1)	-	4(1)	4(1)	1511	Col No 826 B	Ethiopia	5(1)	-	4(1)	3(1)	2(1)		
1148	Col No 685 B	Ethiopia	-	5(1)	3(1)	-	-	1514	Col No 827 B	Ethiopia	5(1)	-	5(1)	-	-		
1149	Col No 688 B	Ethiopia	-	5(2)	-	-	-	1415	Col No 828 B	Ethiopia	5(1)	-	5(1)	-	-		
1150	Col No 689 B	Ethiopia	5(1)	3(1)	-	-	-	1416	Col No 830 B	Ethiopia	5(1)	-	5(1)	-	-		
1151	Col No 696 B	Ethiopia	5(1)	3(1)	-	-	-	1418	Col No 832 B	Ethiopia	5(1)	-	1(1)	1(1)	-		
1152	Col No 703 B	Ethiopia	5(1)	3(1)	-	-	-	1419	Col No 833 B	Ethiopia	5(1)	-	-	-	-		
1153	Col No 704 B	Ethiopia	-	4(1)	-	-	-	1150	Col No 836 B	Ethiopia	5(1)	-	-	-	-		
1155	Col No 705 B	Ethiopia	-	5(1)	-	-	-	1152	Col No 837 B	Ethiopia	5(1)	-	-	-	-		
1156	Col No 706 B	Ethiopia	-	5(1)	-	-	-	1153	PT 32067	Ethiopia	5(1)	-	-	-	-		
1157	Col No 707 B	Ethiopia	-	5(1)	-	-	-	1154	Col No 841	Ethiopia	5(1)	-	-	-	-		
1158	Col No 708 B	Ethiopia	-	5(1)	-	-	3(1)	1155	Col No 842	Ethiopia	5(1)	-	-	-	-		
1160	Col No 716 B	Ethiopia	5(1)	1(1)	-	-	-	1156	Col No 843	Ethiopia	5(1)	-	-	-	-		
1161	Col No 717 B	Ethiopia	5(1)	3(1)	-	-	-	1157	Col No 844	Ethiopia	5(1)	-	-	-	-		
1164	Col No 722 B	Ethiopia	-	5(1)	1(1)	1(1)	-	1158	Col No 845	Ethiopia	5(1)	-	-	-	-		
1165	Col No 723 B	Ethiopia	-	5(1)	-	-	-	1159	Col No 846	Ethiopia	5(1)	-	-	-	-		
1166	Col No 724 B	Ethiopia	5(1)	1(1)	-	-	-	1160	Col No 847	Ethiopia	5(1)	-	-	-	-		
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1168	Col No 727 B	Ethiopia	-	4(1)	-	-	-	1162	Col No 849	Ethiopia	5(1)	-	-	-	-		
1169	Col No 730 B	Ethiopia	-	4(1)	-	-	-	1163	Col No 850	Ethiopia	5(1)	-	2(1)	1(1)	-		
1171	Col No 731 B	Ethiopia	-	4(1)	-	-	-	1164	Col No 851	Ethiopia	5(1)	-	3(1)	-	4(1)		
1172	PT 32586	Ethiopia	-	4(1)	-	-	4(1)	1165	Col No 852	Ethiopia	5(1)	-	-	-	-		
1173	Col No 732 B	Ethiopia	-	4(1)	3(1)	-	-	1166	Col No 853	Ethiopia	5(1)	-	-	-	-		
1174	Col No 744 B	Ethiopia	5(1)	1(1)	-	-	-	1167	Col No 854	Ethiopia	5(1)	-	-	-	-		
1175	Col No 745 B	Ethiopia	-	4(1)	-	-	-	1168	Col No 855	Ethiopia	5(1)	-	-	-	-		
1176	Col No 746 B	Ethiopia	-	4(1)	-	-	-	1169	Col No 856	Ethiopia	5(1)	-	-	-	-		
1177	Col No 747 B	Ethiopia	-	5(1)	-	-	-	1170	Col No 857	Ethiopia	5(1)	-	-	-	-		
1178	Col No 748 B	Ethiopia	-	5(1)	-	-	-	1171	Col No 858	Ethiopia	5(1)	-	-	-	-		
1179	Col No 749 B	Ethiopia	-	4(1)	-	-	-	1172	Col No 859	Ethiopia	5(1)	-	-	-	-		
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1181	Col No 751 B	Ethiopia	-	4(1)	-	-	-	1174	Col No 861	Ethiopia	5(1)	-	-	-	-		
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1183	Col No 753 B	Ethiopia	-	4(1)	-	-	4(1)	1176	Col No 863	Ethiopia	5(1)	-	-	-	-		
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1186	Col No 755 B	Ethiopia	-	4(1)	-	-	-	1179	Col No 866	Ethiopia	5(1)	-	-	5(1)	5(1)		
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1193	Col No 762 B	Ethiopia	-	4(1)	-	-	-	1186	Col No 873	Ethiopia	5(1)	-	-	-	-		
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IS No	Alternate accession identifier	Alternate accession identifier	Source country	SP					IS No	Alternate accession identifier	Source country	SP					
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11556	Col No R-228	Ethiopia		511	-	-	-	-	-	11645	Col No R-360	Ethiopia		411	411	-	-
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11864	Col No P-8	Ethiopia			5(1)				11955	Col No P-137	Ethiopia							
11865	Col No P-9	Ethiopia			5(1)				11956	Col No P-139	Ethiopia							
11867	Col No P-11	Ethiopia			5(1)				11957	Col No P-140	Ethiopia							
11868	Col No P-12	Ethiopia			4(1)				11958	Col No P-146	Ethiopia							
11869	Col No P-13	Ethiopia			4(1)				11959	Col No P-147	Ethiopia							
11870	Col No P-14	Ethiopia			5(1)				11960	Col No P-148	Ethiopia							
11871	Col No P-15	Ethiopia			5(1)				11961	Col No P-149	Ethiopia							
11872	Col No P-16	Ethiopia			5(1)				11962	Col No P-150	Ethiopia							
11873	Col No P-18	Ethiopia			4(1)				11963	Col No P-151	Ethiopia							
11874	Col No P-19	Ethiopia			5(1)				11964	Col No P-157	Ethiopia							
11875	Col No P-20	Ethiopia			5(1)				11967	Col No P-158	Ethiopia							
11876	Col No P-21	Ethiopia			5(1)				11968	Col No P-159	Ethiopia							
11877	Col No P-23	Ethiopia			5(1)				11969	Col No P-160	Ethiopia							
11878	Col No P-23	Ethiopia			5(1)				11970	Col No P-161	Ethiopia							
11879	Col No P-25	Ethiopia			5(1)				11971	Col No P-164	Ethiopia							
11880	Col No P-26	Ethiopia			5(1)				11972	Col No P-165	Ethiopia							
11881	Col No P-27	Ethiopia			5(1)				11973	Col No P-166	Ethiopia							
11882	Col No P-28	Ethiopia			5(1)				11974	Col No P-167	Ethiopia							
11883	Col No P-29	Ethiopia			5(1)				11975	Col No P-168	Ethiopia							
11884	Col No P-30	Ethiopia			5(1)				11976	Col No P-169	Ethiopia							
11885	Col No P-31	Ethiopia			5(1)				11977	Col No P-170	Ethiopia							
11886	Col No P-32	Ethiopia			5(1)				11978	Col No P-171	Ethiopia							
11887	Col No P-34	Ethiopia			5(1)				11979	Col No P-172	Ethiopia							
11888	Col No P-35	Ethiopia			5(1)				11980	Col No P-174	Ethiopia							
11889	Col No P-36	Ethiopia			4(1)				11981	Col No P-175	Ethiopia							
11890	Col No P-47	Ethiopia			4(1)				11982	Col No P-176	Ethiopia							
11891	Col No P-18	Ethiopia			5(1)				11983	Col No P-177	Ethiopia							
11892	Col No P-19	Ethiopia			4(1)				11984	Col No P-178	Ethiopia							
11893	Col No P-20	Ethiopia			5(1)				11985	Col No P-179	Ethiopia							
11894	Col No P-21	Ethiopia			4(1)				11986	Col No P-181	Ethiopia							
11895	Col No P-22	Ethiopia			5(1)				11987	Col No P-182	Ethiopia							
11896	Col No P-23	Ethiopia			4(1)				11988	Col No P-183	Ethiopia							
11897	Col No P-25	Ethiopia			5(1)				11989	Col No P-244	Ethiopia							
11898	Col No P-26	Ethiopia			4(1)				11990	Col No R-207	Ethiopia							
11899	Col No P-47	Ethiopia			5(1)				11997	Col No R-106	Ethiopia							
11900	Col No P-49	Ethiopia			4(1)				11998	Col No R-110	Ethiopia							
11901	Col No P-51	Ethiopia			5(1)				12001	Col No R-112	Ethiopia							
11902	Col No P-54	Ethiopia			5(1)				12002	Col No R-125	Ethiopia							
11903	Col No P-55	Ethiopia			5(1)				12003	Col No R-139	Ethiopia							
11904	Col No P-56	Ethiopia			5(1)				12004	Col No R-189	Ethiopia							
11905	Col No P-57	Ethiopia			5(1)				12005	Col No R-199	Ethiopia							
11906	Col No P-58	Ethiopia			5(1)				12006	Col No R-200	Ethiopia							
11907	Col No P-59	Ethiopia			5(1)				12007	Col No R-107	Ethiopia							
11908	Col No P-60	Ethiopia			5(1)				12008	Col No R-109	Ethiopia							
11909	Col No P-61	Ethiopia			5(1)				12009	Col No R-200	Ethiopia							
11910	Col No P-62	Ethiopia			5(1)				12010	Col No R-207	Ethiopia							
11911	Col No P-64	Ethiopia			5(1)				12011	Col No R-207	Ethiopia							
11912	Col No P-66	Ethiopia			5(1)				12012	Col No R-208	Ethiopia							
11913	Col No P-70	Ethiopia			5(1)				12013	Col No R-207	Ethiopia							
11914	Col No P-71	Ethiopia			4(1)				12014	Col No R-210	Ethiopia							
11915	Col No P-72	Ethiopia			5(1)				12015	Col No R-211	Ethiopia							
11916	Col No P-73	Ethiopia			5(1)				12016	Col No R-211	Ethiopia							
11917	Col No P-76	Ethiopia			5(1)				12017	Col No P-402	Ethiopia							
11918	Col No P-82	Ethiopia			5(1)				12018	Col No P-403	Ethiopia							
11919	Col No P-81	Ethiopia			5(1)				12019	Col No P-404	Ethiopia							
11920	Col No P-84	Ethiopia			5(1)				12020	Col No P-405	Ethiopia							
11921	Col No P-85	Ethiopia			4(1)				12021	Col No P-406	Ethiopia							
11922	Col No P-86	Ethiopia			5(1)				12022	Col No P-407	Ethiopia							
11923	Col No P-87	Ethiopia			5(1)				12023	Col No P-408	Ethiopia							
11924	Col No P-88	Ethiopia			4(1)				12024	Col No P-409	Ethiopia							
11925	Col No P-89	Ethiopia			5(1)				12025	Col No P-410	Ethiopia							
11926	Col No P-90	Ethiopia			5(1)				12026	Col No P-411	Ethiopia							
11927	Col No P-91	Ethiopia			5(1)				12027	Col No P-412	Ethiopia							
11928	Col No P-92	Ethiopia			5(1)				12028	Col No P-413	Ethiopia							
11929	Col No P-106	Ethiopia			5(1)				12029	Col No P-414	Ethiopia							
11930	Col No P-104	Ethiopia			5(1)				12030	Col No P-415	Ethiopia							
11931	Col No P-106	Ethiopia			4(1)				12031	Col No P-421	Ethiopia							
11932	Col No P-107	Ethiopia			4(1)				12032	Col No P-425	Ethiopia							
11933	Col No P-108	Ethiopia			4(1)				12033	Col No P-427	Ethiopia							
11934	Col No P-109	Ethiopia			4(1)				12034	Col No P-428	Ethiopia							
11935	Col No P-110	Ethiopia			4(1)				12035	Col No P-428	Ethiopia							
11936	Col No P-110	Ethiopia			4(1)				12036	Col No P-429	Ethiopia							
11937	Col No P-110	Ethiopia			4(1)				12037	Col No P-430	Ethiopia							
11938	Col No P-122	Ethiopia			5(1)				12038	Col No P-431	Ethiopia							
11940	Col No P-123	Ethiopia			5(1)				12039	Col No P-432	Ethiopia							
11941	Col No P-123	Ethiopia			5(1)				12040	Col No P-433	Ethiopia							
11942	Col No P-124	Ethiopia			5(1)				12041	Col No P-434	Ethiopia							
11943	Col No P-125	Ethiopia			4(1)				12042	Col No P-435	Ethiopia							
11944	Col No P-126	Ethiopia			5(1)				12043	Col No P-436	Ethiopia							
11945	Col No P-128	Ethiopia			5(1)				12044	Col No P-437	Ethiopia							

IR No	Alternative accession identifier	Species country	SF					IR No	Alternative accession identifier	Species country	SF						
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2048	Col No P-442	Ethiopia	-	5(1)	-	-	-	12139	Col No P-563	Ethiopia	-	5(1)	-	-	-	-	
2049	Col No P-443	Ethiopia	-	5(1)	-	-	-	12140	Col No P-564	Ethiopia	-	4(1)	-	-	-	-	
2050	Col No P-445	Ethiopia	-	5(1)	-	-	-	12143	Col No P-567	Ethiopia	-	5(1)	-	-	-	-	
2051	Col No P-446	Ethiopia	-	5(1)	4(1)	-	-	12144	Col No P-568	Ethiopia	5(1)	5(1)	5(1)	-	-	-	
2052	Col No P-447	Ethiopia	-	5(1)	-	-	-	12148	Col No P-572	Ethiopia	-	5(1)	2(1)	-	-	-	
2053	Col No P-448	Ethiopia	-	5(1)	-	-	-	12149	Col No P-573	Ethiopia	-	5(1)	-	-	-	-	
2054	Col No P-449	Ethiopia	-	5(1)	-	-	-	12150	Col No P-574	Ethiopia	-	5(1)	2(1)	-	-	-	
2055	Col No P-450	Ethiopia	-	5(1)	-	-	-	12151	Col No P-575	Ethiopia	-	4(1)	-	-	5(1)	5(1)	
2057	Col No P-452	Ethiopia	-	5(1)	5(1)	-	-	12152	Col No P-582	Ethiopia	-	4(1)	5(1)	-	4(1)	5(1)	
2059	Col No P-454	Ethiopia	-	4(1)	-	-	-	12153	Col No P-583	Ethiopia	-	4(1)	2(1)	-	-	-	
2061	Col No P-456	Ethiopia	-	5(1)	-	-	-	12154	Col No P-584	Ethiopia	-	4(1)	2(1)	-	4(1)	5(1)	
2062	Col No P-457	Ethiopia	-	5(1)	-	-	-	12155	Col No P-585	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2063	Col No P-460	Ethiopia	-	4(1)	1(1)	1(1)	-	12156	Col No P-586	Ethiopia	-	4(1)	2(1)	-	4(1)	5(1)	
2065	Col No P-462	Ethiopia	-	4(1)	-	-	-	12157	Col No P-587	Ethiopia	-	5(1)	2(1)	-	4(1)	5(1)	
2068	Col No P-463	Ethiopia	-	4(1)	-	-	-	12158	Col No P-588	Ethiopia	-	5(1)	2(1)	-	4(1)	5(1)	
2070	Col No P-465	Ethiopia	-	4(1)	-	-	-	12160	Col No P-592	Ethiopia	-	5(1)	-	-	4(1)	5(1)	
2071	Col No P-466	Ethiopia	5(1)	5(1)	-	-	-	12161	Col No P-593	Ethiopia	-	5(1)	-	-	-	-	
2073	Col No P-468	Ethiopia	-	4(1)	-	-	-	12162	Col No P-596	Ethiopia	-	5(1)	-	-	-	-	
2074	Col No P-469	Ethiopia	5(1)	1(1)	-	-	-	12163	Col No P-598	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)	
2075	Col No P-470	Ethiopia	-	4(1)	-	-	-	12164	Col No P-600	Ethiopia	-	5(1)	-	-	4(1)	5(1)	
2076	Col No P-471	Ethiopia	5(1)	2(1)	-	-	-	12165	Col No P-601	Ethiopia	-	4(1)	1(1)	-	2(1)	5(1)	
2077	Col No P-472	Ethiopia	5(1)	5(1)	5(1)	-	-	12166	Col No P-602	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2078	Col No P-473	Ethiopia	-	5(1)	-	-	-	12167	Col No P-603	Ethiopia	-	5(1)	-	-	-	-	
2079	Col No P-474	Ethiopia	5(1)	5(1)	-	-	-	12168	Col No P-604	Ethiopia	-	5(1)	-	-	-	-	
2080	Col No P-477	Ethiopia	5(1)	5(1)	-	-	-	12169	Col No P-605	Ethiopia	-	5(1)	-	-	-	-	
2081	Col No P-478	Ethiopia	-	4(1)	-	-	-	12170	Col No P-609	Ethiopia	-	5(1)	5(1)	-	-	-	
2082	Col No P-482	Ethiopia	5(1)	5(1)	-	-	-	12171	Col No P-610	Ethiopia	-	4(1)	4(1)	-	4(1)	5(1)	
2083	Col No P-481	Ethiopia	5(1)	5(1)	5(1)	-	4(1)	5(1)	12172	Col No P-611	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)
2084	Col No P-484	Ethiopia	-	4(1)	-	-	-	12173	Col No P-612	Ethiopia	-	4(1)	5(1)	-	4(1)	5(1)	
2085	Col No P-485	Ethiopia	5(1)	5(1)	-	-	-	12174	Col No P-613	Ethiopia	-	5(1)	-	-	-	-	
2086	Col No P-487	Ethiopia	5(1)	5(1)	-	-	-	12175	Col No P-614	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)	
2087	Col No P-511	Ethiopia	-	4(1)	-	-	-	12176	Col No P-615	Ethiopia	-	4(1)	-	-	4(1)	5(1)	
2088	Col No P-564	Ethiopia	5(1)	5(1)	-	-	-	12177	Col No P-616	Ethiopia	5(1)	-	5(1)	-	4(1)	5(1)	
2089	Col No P-565	Ethiopia	-	5(1)	-	-	-	12178	Col No P-617	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)	
2090	Col No P-567	Ethiopia	-	5(1)	-	-	-	12179	Col No P-618	Ethiopia	-	5(1)	5(1)	-	-	-	
2091	Col No P-570	Ethiopia	-	4(1)	-	-	-	12180	Col No P-620	Ethiopia	-	5(1)	-	-	-	-	
2092	Col No P-526	Ethiopia	-	5(1)	-	-	-	12181	Col No P-620	Ethiopia	-	5(1)	2(1)	-	-	-	
2093	Col No P-517	Ethiopia	-	5(1)	-	-	-	12182	Col No P-621	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2094	Col No P-518	Ethiopia	-	5(1)	-	-	-	12183	Col No P-622	Ethiopia	-	4(1)	4(1)	-	5(1)	5(1)	
2095	Col No P-519	Ethiopia	-	5(1)	-	-	-	12184	Col No P-623	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2096	Col No P-520	Ethiopia	-	5(1)	-	-	-	12186	Col No P-625	Ethiopia	-	5(1)	4(1)	-	5(1)	5(1)	
2097	Col No P-521	Ethiopia	-	5(1)	-	-	-	12187	Col No P-626	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2098	Col No P-522	Ethiopia	-	5(1)	-	-	-	12188	Col No P-627	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2099	Col No P-523	Ethiopia	-	5(1)	-	5(1)	-	12189	Col No P-628	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2100	Col No P-524	Ethiopia	-	4(1)	-	-	-	12190	Col No P-632	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2101	Col No P-555	Ethiopia	-	4(1)	-	-	-	12191	Col No P-633	Ethiopia	-	4(1)	4(1)	-	4(1)	5(1)	
2102	Col No P-526	Ethiopia	-	4(1)	-	-	-	12192	Col No P-634	Ethiopia	-	2(1)	4(1)	-	4(1)	5(1)	
2103	Col No P-527	Ethiopia	5(1)	5(1)	-	-	-	12193	Col No P-635	Ethiopia	-	4(1)	4(1)	-	-	-	
2104	Col No P-528	Ethiopia	-	4(1)	-	-	-	12194	Col No P-636	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)	
2105	Col No P-529	Ethiopia	-	4(1)	-	-	-	12195	Col No P-637	Ethiopia	-	5(1)	2(1)	-	4(1)	5(1)	
2106	Col No P-530	Ethiopia	-	5(1)	-	-	-	12196	Col No P-638	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2107	Col No P-511	Ethiopia	5(1)	-	-	-	-	12197	Col No P-636	Ethiopia	-	5(1)	2(1)	-	-	-	
2108	Col No P-532	Ethiopia	-	5(1)	-	-	-	12198	Col No P-637	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2109	Col No P-533	Ethiopia	2(1)	1(1)	-	-	5(1)	5(1)	12199	Col No P-641	Ethiopia	-	4(1)	4(1)	-	5(1)	5(1)
2110	Col No P-534	Ethiopia	-	5(1)	-	-	-	12200	Col No P-642	Ethiopia	-	5(1)	2(1)	-	5(1)	5(1)	
2111	Col No P-535	Ethiopia	5(1)	5(1)	-	-	-	12201	Col No P-643	Ethiopia	-	5(1)	-	-	-	-	
2112	Col No P-536	Ethiopia	-	5(1)	-	-	-	12202	Col No P-644	Ethiopia	-	4(1)	-	-	-	-	
2113	Col No P-537	Ethiopia	5(1)	5(1)	-	-	-	12203	Col No P-645	Ethiopia	-	5(1)	-	-	-	-	
2114	Col No P-538	Ethiopia	-	2(1)	-	-	-	12204	Col No P-646	Ethiopia	-	5(1)	4(1)	-	4(1)	5(1)	
2115	Col No P-539	Ethiopia	4(1)	5(1)	5(1)	-	5(1)	5(1)	12205	Col No P-647	Ethiopia	-	5(1)	5(1)	-	5(1)	5(1)
2116	Col No P-540	Ethiopia	5(1)	5(1)	-	-	-	12206	Col No P-218	Ethiopia	-	4(1)	5(1)	-	5(1)	5(1)	
2117	Col No P-541	Ethiopia	-	4(1)	-	-	-	12207	Col No P-221	Ethiopia	-	4(1)	-	-	-	-	
2118	Col No P-542	Ethiopia	-	5(1)	-	-	-	12208	Col No P-220	Ethiopia	5(1)	5(1)	5(1)	-	-	-	
2119	Col No P-543	Ethiopia	-	4(1)	-	-	-	12209	Col No P-220	Ethiopia	-	4(1)	-	-	-	-	
2120	Col No P-544	Ethiopia	5(1)	5(1)	-	-	-	12210	Col No P-220	Ethiopia	-	5(1)	-	-	-	-	
2121	Col No P-545	Ethiopia	-	4(1)	-	-	-	12211	Col No P-543	Ethiopia	-	5(1)	1(1)	4(1)	-	-	-
2122	Col No P-546	Ethiopia	5(1)	5(1)	-	-	-	12212	Col No P-544	Ethiopia	-	5(1)	-	-	-	-	-
2123	Col No P-547	Ethiopia	4(1)	5(1)	-	-	-	12213	Col No P-220	Ethiopia	-	5(1)	-	-	2(1)	5(1)	
2124	Col No P-548	Ethiopia	5(1)	5(1)	-	-	-	12214	Col No P-220	Ethiopia	-	4(1)	-	-	-	-	-
2125	Col No P-549	Ethiopia	5(1)	5(1)	-	-	-	12215	Col No P-227	Ethiopia	-	4(1)	4(1)	-	4(1)	5(1)	
2126	Col No P-550	Ethiopia	-	5(1)	-	-	-	12216	Col No P-220	Ethiopia	-	5(1)	-	-	-	-	-
2127	Col No P-551	Ethiopia	-	5(1)	-	-	-	12217	Col No P-262	Ethiopia	-	4(1)	-	-	4(1)	5(1)	
2128	Col No P-552	Ethiopia	-	5(1)	-	-	-	12218	Col No P-208	Ethiopia	-	5(1)	-	-	-	-	-
2129	Col No P-553	Ethiopia	-	4(1)	-	-	-	12219	Col No P-207	Ethiopia	-	5(1)	-	-	-	-	-
2130	Col No P-554	Ethiopia	-	4(1)	-	-	-	12220	Col No P-271	Ethiopia	-	5(1)	-	-	-	-	-
2131	Col No P-555	Ethiopia	-	5(1)	-	-	-	12221	Col No P-220	Ethiopia	-	5(1)	5(1)	-	4(1)	5(1)	
2132	Col No P-556	Ethiopia	-	5(1)	-	-	-	12222	Col No P-220	Ethiopia	-	5(1)	-	-	-	-	-
2133	Col No P-557	Ethiopia	-	5(1)	-	-	-	12223	Col No P-265	Ethiopia	-	5(1)	1(1)	4(1)	-	-	-
2134	Col No P-558	Ethiopia	-	5(1)	5(1)	-	-	12224	Col No P-107	Ethiopia	-	4(1)	4(1)	-	5(1)	5(1)	
2135	Col No P-559	Ethiopia	-	5(1)	-	-	-	12225	Col No P-105	Ethiopia	-	5(1)	5(1)	-	-	-	-
2136	Col No P-560	Ethiopia	-	5(1)	-	-	-	12226	Col No P-376	Ethiopia	-	5(1)	-	-	-	-	-
2137	Col No P-562	Ethiopia	-	5(1)	-	-	-	12227	Col No P-107	Ethiopia	-	4(1)	-	-	-	-	-

IS No	Alternate accession identifier	Source country	SP				IS No	Alternate accession identifier	Source country	SP			
			P	FR	SB	MD				P	FR	SB	MD
12228	Col No P-108	Ethiopia		4(1)	-	-	12325	PI 286290	Zimbabwe		4(1)	-	-
12229	Col No P-109	Ethiopia		5(1)	-	-	12326	PI 286171	Zimbabwe		5(1)	-	-
12230	Col No P-111	Ethiopia		4(1)	-	-	12327	MS 2387	Nigeria		3(1)	-	-
12231	Col No P-123	Ethiopia		4(1)	3(1)	-	12328	MS 1963	Nigeria		4(1)	-	-
12232	Col No P-129	Ethiopia		4(1)	-	-	12329	MARAYAT-MIRABIR	Nigeria		4(1)	-	-
12234	Col No P-134	Ethiopia		4(1)	-	-	12330	ML 1-64-184	Nigeria		3(1)	-	-
12235	Col No P-135	Ethiopia		4(1)	-	-	12331	-	Senegal		4(2)	-	-
12236	Col No P-135	Ethiopia		5(1)	1(1)	-	12332	-	Senegal		4(1)	-	-
12237	Col No P-135	Ethiopia		5(1)	4(1)	-	12333	-	Senegal		2(1)	-	-
12238	Col No P-137	Ethiopia		5(1)	-	-	12334	-	Senegal		4(1)	-	-
12239	FAO Res. No 1	Ethiopia		5(1)	3(1)	4(1)	12335	-	Senegal		5(1)	-	-
12240	FAO Res. No 4	Ethiopia		5(1)	-	-	12336	-	Senegal		5(1)	-	-
12241	Col No R-338-R4	Ethiopia		5(1)	-	-	12367	V. adone	Malawi		4(1)	3(1)	2(1)
12242	Col No R-338-R5	Ethiopia		5(1)	-	-	12368	V. atrovirens	Malawi		5(1)	3(1)	4(1)
12243	Col No R-338-R52	Ethiopia		4(2)	-	-	12369	Unkown	Benin		3(1)	3(2)	4(2)
12244	Col No R-339	Ethiopia		5(1)	-	-	12411	Unkown	Nigeria		2(1)	-	-
12245	Col No R-354	Ethiopia		4(2)	-	-	12412	Unkown	Nigeria		2(1)	-	-
12246	Col No R-418	Ethiopia		5(1)	4(1)	-	12413	Unkown	Nigeria		3(1)	-	-
12249	Col No R-423	Ethiopia		5(1)	-	-	12420	Unkown	Nigeria		2(1)	-	-
12250	Col No R-426	Ethiopia		5(1)	-	-	12427	Unkown	Kenya		3(1)	3(1)	3(1)
12252	Col No R-427	Ethiopia		5(1)	-	-	12431	Unkown	Senegal		4(2)	-	-
12253	Col No R-428	Ethiopia		5(1)	-	-	12443	Unkown	Senegal		3(2)	-	-
12254	Col No R-436	Ethiopia		5(1)	-	-	12446	Unkown	Senegal		5(2)	-	-
12255	Col No R-444	Ethiopia		5(1)	-	-	12449	Unkown	Senegal		4(2)	-	-
12256	Col No R-447	Ethiopia		4(1)	-	-	12452	Unkown	Senegal		5(2)	-	-
12258	Col No R-457	Ethiopia		4(1)	-	-	12454	Unkown	Senegal		5(2)	-	-
12260	Col No R-469	Ethiopia		5(1)	-	-	12456	Unkown	Senegal		4(2)	-	-
12262	Col No R-470	Ethiopia		5(1)	4(1)	-	12459	Unkown	Senegal		3(1)	-	-
12263	Col No R-490	Ethiopia		4(1)	4(1)	-	12465	Unkown	Senegal		3(2)	-	-
12264	Col No R-507	Ethiopia		5(1)	-	-	12468	Unkown	Senegal		4(2)	-	-
12265	Col No R-116 A	Ethiopia		5(1)	3(1)	4(2)	12469	Unkown	Senegal		3(2)	-	-
12266	Col No R-141	Ethiopia		5(1)	3(2)	4(2)	12473	Unkown	Senegal		3(2)	-	-
12268	Col No R-143	Ethiopia		5(1)	4(2)	4(2)	12482	Unkown	Kenya		3(1)	2(1)	4(1)
12269	Col No R-144	Ethiopia		5(1)	4(2)	5(1)	12484	Unkown	Kenya		3(1)	2(1)	4(1)
12271	Col No R-147	Ethiopia		5(1)	3(1)	-	12490	Unkown	Kenya		5(1)	-	-
12273	Staphylococcus	Nepal		4(1)	2(1)	3(1)	12505	Unkown	Kenya		3(1)	1(1)	1(1)
12274	Staphylococcus	Nepal		4(1)	2(1)	3(1)	12506	Unkown	Kenya		3(1)	1(1)	1(1)
12278	Staphylococcus	Nepal		4(1)	2(1)	3(1)	12507	Unkown	Kenya		3(1)	1(1)	1(1)
12279	Staphylococcus	Nepal		4(1)	2(1)	3(1)	12508	Unkown	Kenya		3(1)	1(1)	1(1)
12279	PI 287556	Zimbabwe		5(2)	3(1)	4(1)	12524	MS 618	Zimbabwe		5(1)	-	-
12280	PI 287556	Zimbabwe		5(2)	4(1)	4(1)	12525	MS 644	Zimbabwe		5(1)	-	-
12281	PI 287566	Zimbabwe		5(2)	3(1)	4(1)	12527	MS 605	Zimbabwe		4(2)	-	-
12282	PI 287568	Zimbabwe		5(2)	4(1)	4(2)	12528	MS 608	Zimbabwe		4(2)	-	-
12283	PI 287578	Zimbabwe		4(1)	4(1)	4(2)	12529	MS 613	Zimbabwe		4(2)	-	-
12283	PI 287578	Zimbabwe		4(1)	4(1)	4(2)	12530	MS 625	Zimbabwe		5(1)	3(1)	3(1)
12283	PI 287578	Zimbabwe		4(1)	4(1)	4(1)	12531	MS 626	Zimbabwe		5(1)	3(1)	3(1)
12285	PI 287587	Zimbabwe		5(2)	4(1)	4(2)	12535	Unkown	Zimbabwe		4(2)	-	-
12287	PI 287605	Zimbabwe		5(1)	3(1)	3(1)	12541	MS 631	Zimbabwe		5(2)	3(1)	3(1)
12289	PI 287604	Zimbabwe		5(1)	3(1)	3(1)	12543	MS 634	Zimbabwe		5(1)	3(1)	3(1)
12290	PI 287604	Zimbabwe		5(1)	3(1)	3(1)	12544	MS 635	Zimbabwe		5(1)	3(1)	3(1)
12290	PI 287604	Zimbabwe		4(2)	-	-	12546	MS 632	Zimbabwe		4(1)	-	-
12291	PI 287609	Zimbabwe		3(1)	3(1)	4(2)	12547	MS 637	Zimbabwe		5(1)	-	-
12292	PI 287611	Zimbabwe		5(2)	-	-	12548	MS 626	Zimbabwe		5(2)	-	-
12294	PI 287624	Zimbabwe		4(1)	3(1)	4(2)	12549	MS 635	Zimbabwe		4(1)	-	-
12294	PI 287625	Zimbabwe		5(1)	4(1)	4(1)	12550	MS 636	Zimbabwe		5(1)	3(1)	3(1)
12295	PI 287626	Zimbabwe		3(1)	3(1)	4(2)	12547	MS 639	Zimbabwe		5(1)	3(2)	-
12297	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12542	MS 639	Zimbabwe		4(1)	-	-
12298	PI 287639	Zimbabwe		4(2)	3(1)	4(2)	12543	MS 640	Zimbabwe		5(1)	-	-
12299	PI 287639	Zimbabwe		4(2)	3(1)	4(2)	12544	MS 641	Zimbabwe		5(1)	-	-
12300	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12545	MS 642	Zimbabwe		5(1)	-	-
12301	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12546	MS 643	Zimbabwe		5(1)	-	-
12302	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12547	MS 644	Zimbabwe		5(1)	-	-
12303	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12548	MS 645	Zimbabwe		5(1)	-	-
12304	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12549	MS 646	Zimbabwe		5(1)	-	-
12305	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12550	MS 702	Zimbabwe		4(1)	-	-
12305	PI 287639	Zimbabwe		4(1)	-	-	12552	MS 634	Zimbabwe		5(1)	-	-
12306	PI 287639	Zimbabwe		5(1)	3(1)	4(2)	12554	MS 686	Zimbabwe		5(1)	-	-
12307	PI 287664	Zimbabwe		3(1)	3(1)	4(1)	12555	MS 693	Zimbabwe		4(1)	-	-
12308	PI 287666	Zimbabwe		4(2)	1(2)	3(2)	12556	MS 692	Zimbabwe		3(1)	3(1)	3(1)
12309	PI 287668	Zimbabwe		3(2)	-	-	12547	MS 685	Zimbabwe		5(1)	-	-
12310	PI 287670	Zimbabwe		4(1)	3(1)	4(1)	12548	MS 688	Zimbabwe		5(2)	-	-
12311	PI 287672	Zimbabwe		4(1)	3(1)	4(2)	12549	MS 679	Zimbabwe		5(1)	-	-
12312	PI 287677	Zimbabwe		5(1)	3(1)	3(1)	12560	MS 708	Zimbabwe		4(1)	4(1)	-
12314	PI 287684	Zimbabwe		5(1)	-	-	12562	MS 712	Zimbabwe		5(1)	-	-
12315	PI 287685	Zimbabwe		5(2)	-	-	12564	MS 710	Zimbabwe		4(1)	-	-
12316	PI 287688	Zimbabwe		5(1)	3(1)	4(1)	12566	MS 710	Zimbabwe		5(1)	-	-
12317	PI 287694	Zimbabwe		5(1)	3(1)	4(1)	12566	MS 749	Zimbabwe		5(1)	-	-
12318	PI 287702	Zimbabwe		5(1)	3(1)	4(1)	12567	MS 715	Zimbabwe		5(1)	2(1)	3(1)
12319	PI 287701	Zimbabwe		3(1)	3(1)	4(1)	12568	MS 710	Zimbabwe		5(1)	3(1)	-
12320	PI 287811	Zimbabwe		5(2)	2(1)	3(1)	12569	MS 811	Zimbabwe		5(1)	-	-
12321	PI 287839	Zimbabwe		5(2)	-	-	12570	MS 833	Zimbabwe		5(2)	-	-
12322	PI 287850	Zimbabwe		5(1)	2(1)	4(1)	12571	MS 855	Zimbabwe		4(2)	-	-
12323	PI 287865	Zimbabwe		5(1)	3(2)	4(1)	12572	MS 856	Zimbabwe		5(1)	-	-
12324	PI 287888	Zimbabwe		5(1)	3(1)	4(2)	12573	MS 858	Zimbabwe		5(1)	3(1)	4(1)

IS No	Alternate accession	Source country	SP						IS No	Alternate accession	Source country	SP					
			R		DBS		DR					M		DBS		DR	
			FR	FR	DBS	DBS	DR	DR				M	M	DBS	DBS	DR	DR
12574	MIN 808	Sudan	5(1)	1(1)	-	-	-	12640	SA 2158	Ethiopia	-	-	4(1)	2(1)	-	-	
12575	MIN 877	Sudan	-	-	-	-	5(1)	12641	SA 2155	Ethiopia	-	-	5(1)	-	-	4(2)	
12576	MIN 888	Sudan	-	-	-	-	5(1)	12642	SA 2156	Ethiopia	-	-	4(1)	2(1)	-	4(1)	
12577	MIN 1230	Kenya	-	-	-	-	-	12645	SA 2160	Ethiopia	-	-	5(1)	2(1)	-	4(1)	
12578	MIN 1230	Kenya	-	-	4(1)	4(1)	-	12646	SA 2160	Ethiopia	-	-	5(1)	4(1)	-	4(1)	
12579	MIN 1234	Kenya	-	-	-	-	-	12647	SA 2161	Ethiopia	-	-	5(1)	3(1)	-	5(1)	
12580	MIN 1244	Kenya	-	-	-	-	-	12649	SA 2168	Ethiopia	-	-	4(2)	-	-	-	
12581	MIN 2250	Kenya	5(1)	2(1)	-	-	-	12670	SA 2169	Ethiopia	-	-	5(1)	-	-	-	
12582	MIN 2251	Kenya	-	-	-	-	-	12671	SA 2170	Ethiopia	-	-	4(4)	-	-	-	
12583	MIN 252	Kenya	-	-	-	-	-	12672	SA 2171	Ethiopia	5(1)	2(1)	-	-	-	-	
12584	MIN 1208	Kenya	-	-	-	-	-	12673	SA 2173	Ethiopia	-	-	-	-	-	-	
12585	MIN 1250	Kenya	-	-	-	-	-	12674	PI 277167	Morocco	-	-	5(1)	2(1)	-	7(1)	
12586	MIN 1362	Kenya	-	-	-	-	-	12675	PI 277542	South Africa	-	-	-	-	-	5(1)	
12587	MIN 1263	Kenya	-	-	-	-	-	12676	PI 283419	Nigeria	-	-	-	-	-	5(1)	
12588	MIN 1365	Kenya	-	-	-	-	-	12678	PI 285402	Nigeria	-	-	-	-	-	4(2)	
12589	MIN 1266	Kenya	-	-	-	-	-	12680	PI 1197	India	5(1)	4(1)	2(1)	-	4(2)	5(1)	
12590	MIN 1274	Kenya	-	-	-	-	-	12684	SA 1905	Nigeria	-	-	5(1)	5(1)	-	5(2)	
12591	MIN 1308	Uganda	-	-	-	-	-	12685	SA 1286	Ethiopia	-	-	3(1)	-	-	-	
12592	MIN 2314	Uganda	-	-	-	-	-	12687	PI 302105	Ethiopia	5(1)	-	5(1)	-	-	-	
12593	MIN 2318	Uganda	-	-	-	-	-	12688	PI 250405	Zimbabwe	5(1)	-	5(1)	-	-	-	
12594	MIN 1064	Uganda	-	-	-	-	-	12694	PI 302101	South Africa	-	-	-	-	-	5(1)	
12595	MIN 1524	Uganda	-	-	-	-	-	12695	PI 302111	South Africa	-	-	-	-	-	5(1)	
12596	MEN 1562	Uganda	-	-	4(1)	4(1)	5(1)	12697	PI 307316	Australia	5(1)	4(2)	4(1)	-	5(1)	5(1)	
12597	MEN 1174	Zambia	-	-	-	-	-	12698	PI 302112	Australia	5(1)	-	5(1)	-	-	5(1)	
12598	MEN 1644	Zambia	-	-	-	-	-	12699	PI 302118	Ethiopia	-	-	5(1)	5(1)	-	-	
12599	MEN 1631	Zambia	-	-	-	-	-	12700	PI 302342	Algeria	-	-	5(1)	5(1)	-	-	
12600	MEN 1739	Zambia	-	-	-	-	-	12701	PI 302246	Tanzania	5(1)	-	4(1)	-	5(1)	5(1)	
12601	MIN 3116	Ethiopia	5(1)	2(1)	-	-	-	12702	PI 302247	Tanzania	5(1)	-	5(1)	-	5(1)	5(1)	
12602	PI 221624	Nigeria	-	-	-	-	-	12706	Kenya	USA	-	-	-	-	5(1)	5(1)	
12603	PI 221625	Nigeria	-	-	-	-	-	12707	Red Amber	Australia	-	-	4(1)	4(2)	5(1)	5(1)	
12604	PI 221631	Nigeria	-	-	-	-	-	12708	Red Amber	USA	-	-	4(1)	4(1)	5(1)	5(2)	
12605	PI 221857	Ethiopia	-	-	-	-	-	12709	Kenya	South Africa	-	-	4(1)	3(1)	-	5(1)	
12606	MIN 882	Philippines	-	-	-	-	-	12710	Kenya	South Africa	-	-	5(1)	4(1)	-	5(1)	
12607	MIN 4984	Ethiopia	-	-	-	-	-	12711	Chinese amber	China	-	-	5(1)	5(1)	-	5(1)	
12608	PI 257596	Ethiopia	-	-	-	3(1)	5(1)	12712	White kaolin	China	-	-	5(1)	5(1)	-	5(1)	
12609	PI 257598	Ethiopia	-	-	-	4(1)	5(1)	12713	Japanese pearl	USA	-	-	5(1)	5(1)	-	5(1)	
12610	PI 257599	Ethiopia	-	-	-	4(1)	5(1)	12717	Kenya	USA	-	-	5(1)	5(1)	-	4(1)	
12611	PI 257600	Ethiopia	5(1)	4(2)	4(1)	4(1)	5(1)	12718	Sumat	USA	-	-	4(2)	5(1)	-	4(1)	
12612	PI 257603	Ethiopia	-	-	2(2)	3(1)	4(1)	12722	White kaolin	South Africa	-	-	5(1)	5(1)	-	5(1)	
12613	SA 2285	Ethiopia	-	-	-	-	-	12723	African kifer	South Africa	5(1)	3(1)	5(1)	-	5(1)	-	
12614	SA 2287	Ethiopia	-	-	-	-	-	12725	Dobra	Switzerland	-	-	5(1)	4(1)	-	5(1)	
12615	SA 2289	Ethiopia	5(1)	2(1)	-	-	-	12726	Kenya	Sudan	-	-	5(1)	3(1)	-	5(1)	
12616	SA 2290	Ethiopia	-	-	-	-	-	12727	Kenya	Sudan	-	-	5(1)	3(1)	-	5(1)	
12617	SA 2291	Ethiopia	-	-	-	-	-	12731	Carnegie	Malaysia	-	-	5(1)	5(1)	-	5(2)	
12618	SA 2292	Ethiopia	5(1)	4(1)	-	-	-	12732	Somug	China	-	-	4(2)	4(2)	-	5(1)	
12619	SA 2294	Ethiopia	5(1)	4(1)	-	-	-	12734	White kaolin	China	-	-	4(1)	4(1)	-	5(2)	
12620	SA 2295	Ethiopia	-	-	-	-	-	12736	Syn red kaolin	China	-	-	4(2)	4(1)	-	5(2)	
12621	SA 2400	Ethiopia	-	-	-	-	-	12738	Syn blue	Saudi Arabia	5(1)	-	4(1)	-	-	4(1)	
12622	SA 2401	Ethiopia	-	-	-	-	-	12739	Shiloh	China	-	-	4(1)	4(1)	-	5(2)	
12623	SA 2402	Ethiopia	-	-	-	-	-	12742	Kandary	China	-	-	4(2)	2(1)	-	5(2)	
12624	SA 2403	Ethiopia	-	-	-	-	-	12743	Kandary	China	-	-	5(1)	4(1)	-	5(2)	
12625	SA 2404	Ethiopia	-	-	-	-	-	12745	Devar sagdram	China	-	-	5(1)	-	-	5(2)	
12626	SA 2405	Ethiopia	-	-	-	-	-	12746	Kenya	China	5(1)	-	4(1)	4(1)	-	5(2)	
12627	SA 2406	Ethiopia	-	-	-	-	-	12747	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12628	SA 2407	Ethiopia	-	-	-	-	-	12748	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12629	SA 2408	Ethiopia	-	-	-	-	-	12749	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12630	SA 2409	Ethiopia	-	-	-	-	-	12750	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12631	SA 2410	Ethiopia	-	-	-	-	-	12751	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12632	SA 2411	Ethiopia	-	-	-	-	-	12752	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12633	SA 2412	Ethiopia	-	-	-	-	-	12753	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12634	SA 2413	Ethiopia	-	-	-	-	-	12754	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12635	SA 2414	Ethiopia	-	-	-	-	-	12755	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12636	SA 2415	Ethiopia	-	-	-	-	-	12756	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12637	SA 2416	Ethiopia	-	-	-	-	-	12757	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12638	SA 2417	Ethiopia	-	-	-	-	-	12758	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12639	SA 2418	Ethiopia	-	-	-	-	-	12759	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12640	SA 2419	Ethiopia	-	-	-	-	-	12760	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12641	SA 2420	Ethiopia	-	-	-	-	-	12761	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12642	SA 2421	Ethiopia	-	-	-	-	-	12762	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12643	SA 2422	Ethiopia	-	-	-	-	-	12763	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12644	SA 2423	Ethiopia	-	-	-	-	-	12764	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12645	SA 2424	Ethiopia	-	-	-	-	-	12765	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12646	SA 2425	Ethiopia	-	-	-	-	-	12766	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12647	SA 2426	Ethiopia	-	-	-	-	-	12767	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12648	SA 2427	Ethiopia	-	-	-	-	-	12768	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12649	SA 2428	Ethiopia	-	-	-	-	-	12769	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12650	SA 2429	Ethiopia	-	-	-	-	-	12770	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12651	SA 2430	Ethiopia	-	-	-	-	-	12771	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12652	SA 2431	Ethiopia	-	-	-	-	-	12772	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12653	SA 2432	Ethiopia	-	-	-	-	-	12773	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12654	SA 2433	Ethiopia	-	-	-	-	-	12774	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12655	SA 2434	Ethiopia	-	-	-	-	-	12775	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12656	SA 2435	Ethiopia	-	-	-	-	-	12776	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12657	SA 2436	Ethiopia	-	-	-	-	-	12777	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12658	SA 2437	Ethiopia	-	-	-	-	-	12778	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	
12659	SA 2438	Ethiopia	-	-	-	-	-	12779	Kenya	China	5(1)	-	4(1)	4(1)	-	5(1)	

IR No	Achromic accession identifier	Source country	SP					IR No					Achromic accession identifier	Source country	SP				
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12814	Akdeniz	Turkey	-	5(1)	5(1)	-	-	13065	PI 236230	Australia	-	4(1)	4(2)	-	5(2)	-			
12815	Akdeniz	Turkey	-	4(1)	5(1)	-	-	13066	PI 236230	Australia	-	4(1)	4(2)	-	5(2)	-			
12817	Akdeniz	Turkey	-	5(1)	5(1)	-	-	13067	PI 236281	Australia	-	5(1)	5(1)	-	5(2)	-			
12818	Akdeniz	Turkey	-	5(1)	3(2)	-	-	13068	PI 236282	Australia	-	5(1)	4(1)	-	5(1)	-			
12819	Akdeniz	Turkey	-	4(4)	4(1)	-	-	13069	PI 236283	Australia	-	5(1)	4(1)	-	5(1)	5(1)			
12821	Akdeniz	Turkey	-	5(1)	5(1)	-	5(2)	13070	PI 236284	Australia	-	5(1)	5(1)	-	5(1)	-			
12822	Akdeniz	Turkey	-	5(1)	5(1)	-	5(2)	13071	PI 236287	Australia	-	4(1)	5(1)	-	5(1)	-			
12827	Akdeniz	Turkey	-	4(1)	5(1)	-	5(2)	13074	PI 236288	Australia	-	4(1)	5(1)	-	5(1)	-			
12828	Akdeniz	Turkey	-	5(1)	4(2)	-	5(1)	13076	PI 236290	Australia	-	4(1)	5(1)	-	5(1)	-			
12830	Karadeniz	Turkey	-	5(1)	5(1)	-	-	13083	PI 236297	Australia	-	5(1)	5(1)	-	5(1)	-			
12831	Akdeniz	Turkey	-	5(1)	4(1)	-	5(1)	13087	PI 243023	India	-	4(1)	3(2)	-	-	-			
12835	Akdeniz	Turkey	-	5(1)	5(1)	-	5(1)	13088	PI 249255	India	-	4(1)	4(2)	-	5(1)	-			
12837	Akdeniz	Turkey	5(1)	5(1)	5(1)	-	5(1)	13097	PI 248263	India	-	5(1)	3(2)	-	-	-			
12839	Akdeniz	Turkey	-	5(1)	5(1)	-	-	13098	PI 248263	India	-	5(1)	3(2)	-	-	-			
12840	Akdeniz	Turkey	-	5(1)	4(1)	-	5(1)	13100	PI 248268	India	5(1)	4(2)	1(2)	3(1)	5(2)	5(1)			
12842	Akdeniz	Turkey	-	5(1)	5(1)	-	5(1)	13104	PI 248281	India	-	4(2)	5(1)	-	5(1)	-			
12843	Akdeniz	Turkey	-	5(1)	5(1)	-	5(1)	13108	PI 248290	India	5(1)	5(1)	5(1)	-	-	-			
12848	Akdeniz	Turkey	-	5(1)	4(1)	-	5(1)	13110	PI 248374	India	-	5(1)	4(1)	-	5(1)	-			
12849	Akdeniz	Turkey	-	4(1)	5(1)	-	5(1)	13111	PI 248375	India	-	4(1)	4(2)	-	5(1)	-			
12850	Akdeniz	Turkey	5(2)	5(1)	5(1)	-	5(2)	13113	PI 248326	India	-	5(1)	4(1)	-	5(1)	-			
12852	Akdeniz	Turkey	-	5(1)	4(1)	-	5(1)	13114	PI 248327	India	-	5(1)	4(1)	-	5(1)	-			
12855	Akdeniz	Turkey	-	5(1)	5(2)	-	5(1)	13115	PI 248361	India	-	5(1)	4(1)	-	5(1)	-			
12856	Akdeniz	Syria	-	5(1)	5(2)	-	5(1)	13118	PI 250213	Pakistan	-	5(1)	4(1)	-	5(1)	-			
12857	Akdeniz	Turkey	-	5(1)	5(1)	-	5(1)	13122	PI 250205	Pakistan	5(2)	-	-	-	5(1)	-			
12858	Akdeniz	Turkey	-	5(1)	4(1)	-	5(1)	13123	PI 250205	Pakistan	-	5(1)	4(1)	-	5(1)	-			
12862	PI 174952	Turkey	-	4(1)	5(1)	-	5(1)	13126	PI 250406	Pakistan	-	5(1)	3(2)	-	5(1)	-			
12863	PI 190503	Turkey	-	5(1)	5(1)	-	5(1)	13127	PI 2361407	India	-	5(1)	3(2)	-	5(1)	-			
12865	Jowar	India	-	4(1)	5(1)	-	5(1)	13146	PI 253413	India	-	4(1)	4(1)	-	5(1)	-			
12866	Jowar	India	-	5(1)	5(2)	-	5(1)	13148	PI 253705	India	-	4(1)	4(1)	-	5(1)	-			
12867	Jowar	India	-	5(1)	-	-	5(2)	13149	PI 253706	India	-	5(1)	4(1)	-	5(1)	-			
12868	Jowar	India	-	5(1)	-	-	5(1)	13150	PI 253706	Syria	-	5(1)	5(1)	-	5(1)	-			
12869	Jowar	India	-	5(1)	4(1)	-	5(1)	13153	PI 253743	Turkey	-	4(1)	4(2)	-	5(1)	-			
12870	Jowar	India	-	5(1)	3(2)	-	5(1)	13157	PI 257407	Argentina	-	5(1)	5(1)	-	5(1)	-			
12871	Jowar	India	-	5(1)	3(2)	-	5(1)	13171	PI 257411	Argentina	5(1)	-	-	-	-	-			
12872	Jowar	India	5(1)	5(1)	5(1)	-	5(1)	13173	PI 257411	Argentina	5(2)	5(2)	-	-	-	-			
12875	Jowar	India	-	4(1)	3(2)	-	5(1)	13179	PI 257418	Argentina	-	5(1)	5(1)	-	5(1)	-			
12876	Jowar	India	-	5(1)	3(2)	-	5(1)	13181	PI 257422	Argentina	-	5(1)	5(1)	-	5(1)	-			
12880	Red amaranth	India	-	5(1)	4(2)	-	5(2)	13182	PI 257424	Argentina	-	5(1)	5(1)	-	5(1)	-			
12882	Sera kuth	India	-	5(1)	5(1)	-	5(1)	13184	PI 257425	Argentina	-	5(1)	4(1)	-	5(2)	5(2)			
12883	Dhapa	Burma	-	5(1)	-	-	5(1)	13185	PI 257426	Argentina	-	5(1)	4(1)	-	5(1)	-			
12885	Alphonso	India	5(1)	5(1)	5(1)	-	5(1)	13190	PI 257499	Russia & CIS	5(1)	5(1)	5(1)	-	5(1)	-			
12886	Honey amaranth	India	-	4(1)	4(1)	-	5(1)	13196	PI 252626	Russia & CIS	-	5(1)	4(1)	-	5(1)	-			
12887	Baechu	India	-	5(1)	4(2)	-	5(1)	13203	PI 264418	Spain	-	5(1)	4(2)	-	5(1)	-			
12889	Khandani	India	-	5(1)	4(1)	-	5(1)	13205	PI 264448	Spain	-	5(1)	4(1)	-	5(1)	-			
12890	PI 181791	Syria	-	4(1)	5(1)	-	5(1)	13219	PI 264459	Spain	-	5(1)	5(1)	-	5(1)	-			
12896	Akdeniz	Turkey	-	5(1)	5(1)	-	5(1)	13240	PI 264650	Costa Rica	-	5(1)	4(1)	-	5(1)	-			
12902	Jowar	India	-	5(1)	5(1)	-	5(1)	13212	PI 265062	Guatemala	-	5(1)	5(1)	-	-	-			
12902	Jowar	India	-	4(1)	4(1)	-	5(1)	13254	PI 266068	Guatemala	-	4(1)	5(1)	-	-	-			
12903	Jowar	India	-	5(1)	-	-	5(1)	13257	PI 266058	Russia & CIS	5(1)	5(1)	5(1)	-	5(1)	-			
12904	Jowar	India	-	5(1)	5(1)	-	5(1)	13240	PI 266454	Russia & CIS	5(1)	5(1)	4(1)	-	5(1)	-			
12905	Jowar	India	-	5(1)	4(1)	-	5(1)	13212	PI 266056	Russia & CIS	5(1)	5(1)	4(1)	-	5(1)	-			
12909	Jowar	India	-	5(1)	5(1)	-	5(1)	13236	PI 266060	Russia & CIS	-	5(1)	5(1)	-	5(1)	-			
12918	Brah melange	Jamaica	5(1)	2(1)	4(1)	-	5(1)	13238	PI 266062	Russia & CIS	5(1)	4(1)	5(1)	-	5(1)	-			
12919	Melange S4	Jamaica	5(1)	2(1)	4(1)	-	5(1)	13240	PI 267117	Russia & CIS	-	4(1)	5(1)	-	5(1)	-			
12923	PI 195019	Ethiopia	-	4(1)	4(1)	-	5(1)	13241	PI 267118	Russia & CIS	-	5(1)	5(1)	-	5(1)	-			
12924	PI 195020	Ethiopia	-	4(1)	4(1)	-	5(1)	13242	PI 267119	Russia & CIS	-	5(1)	5(1)	-	5(1)	-			
12930	PI 195028	Ethiopia	-	4(2)	4(2)	-	4(1)	13243	PI 267120	Russia & CIS	-	5(2)	4(1)	-	5(1)	-			
12931	PI 195734	China	5(1)	-	-	-	-	13244	PI 267121	Russia & CIS	-	5(1)	5(1)	-	5(1)	-			
12932	Shanlong	China	-	4(2)	4(2)	-	5(1)	13245	PI 267122	Russia & CIS	-	5(1)	4(1)	-	5(1)	-			
12937	PI 196018	Pakistan	-	4(1)	4(1)	-	5(1)	13248	PI 267125	Russia & CIS	-	5(1)	4(2)	-	5(1)	-			
12941	PI 196071	Ethiopia	-	5(1)	5(1)	-	5(1)	13249	PI 267130	Russia & CIS	5(1)	3(1)	4(1)	-	5(1)	-			
12945	PI 197050	Nicaragua	-	5(1)	5(2)	-	5(1)	13250	PI 267605	Nigeria	-	5(1)	5(1)	-	5(1)	-			
12949	PI 197247	Ethiopia	-	5(1)	-	-	5(1)	13251	PI 296494	Nigeria	-	5(1)	5(1)	-	5(1)	-			
12953	PI 200758	PI 200758	5(1)	4(1)	-	-	5(1)	13254	PI 269976	Pakistan	5(1)	4(1)	3(2)	-	5(1)	-			
12958	PI 202715	Uruguay	-	5(1)	4(1)	-	5(2)	13254	PI 269977	India	-	4(1)	4(1)	-	5(1)	-			
12963	PI 208770	India	-	5(1)	-	-	5(1)	13255	PI 271742	India	5(1)	-	5(1)	-	-	-			
12967	PI 211029	India	-	5(1)	-	-	5(1)	13256	PI 271743	India	-	5(1)	5(1)	-	-	-			
12987	Ruba	India	-	5(1)	5(1)	-	4(1)	13257	PI 271733	India	-	5(1)	4(1)	-	-	-			
12994	Ashi dipati	Sudan	-	4(1)	4(1)	-	5(1)	13261	PI 271729	India	4(1)	2(1)	4(1)	-	5(1)	-			
12995	Guzen	Nigeria	-	5(1)	5(1)	-	5(1)	13262	PI 271617	India	-	5(1)	3(1)	-	5(1)	-			
13001	Vai masamang	Nigeria	-	5(1)	5(1)	-	-	13263	PI 271618	India	-	5(1)	4(1)	-	5(1)	-			
13004	Fara fara	Nigeria	-	5(1)	5(1)	-	-	13264	PI 271619	India	-	5(1)	4(1)	-	5(1)	-			
13005	Gungara dawaki	Nigeria	-	5(1)	5(1)	-	-	13265	PI 271620	India	-	5(1)	5(1)	-	5(1)	-			
13013	Kurungu	Nigeria	-	5(1)	5(1)	-	-	13266	PI 271621	India	-	5(1)	5(1)	-	5(1)	-			
13014	Faker masi	Nigeria	-	5(1)	-	-	-	13267	PI 271622	India	-	5(1)	5(1)	-	5(1)	-			
13047	PI 226570	Ethiopia	-	5(1)	-	-	5(1)	13294	PI 274459	Venezuela	5(1)	-	-	-	5(1)	5(1)			
13051	Mamni	Kenya	-	5(1)	5(1)	-	5(1)	13050	PI 276770	Ethiopia	-	5(1)	-	-	-	-			
13052	Badf proof	South Africa	-	4(1)	4(1)	-	5(1)	13051	PI 276776	Ethiopia	-	4(1)	5(1)	-	-	-			
13056	PI 276761	South Africa	-	4(1)	4(1)	-	5(1)	13052	PI 276777	Ethiopia	-	4(1)	5(1)	-	-	-			
13057	PI 276761	South Africa	-	4(1)	4(1)	-	5(1)	13053	PI 276780	Ethiopia	-	4(1)	5(1)	-	-	-			
13061	PI 312876	Kenya	-	5(1)	4(2)	-	5(1)	13058	PI 276800	Ethiopia	-	4(1)	5(1)	-	-	-			
13064	PI 246278	Australia	-	4(1)	4(1)	-	5(1)	13146	PI 276812	Ethiopia	-	5(1)	5(1)	-	5(1)	5(1)			

US No	Alternative accession identifier	Source country	SP					IS No	Alkaloid accession identifier	Source country	SP						
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4008	PI 10464	South Africa	-	5(1)	5(1)	-	5(1)	14384	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)		
4009	PI 10468	South Africa	-	5(1)	5(1)	-	5(1)	14385	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)		
4010	PI 10492	South Africa	-	5(1)	5(1)	-	5(1)	14386	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)		
4011	PI 10493	South Africa	-	4(1)	5(1)	-	5(1)	14387	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)		
4012	PI 10497	South Africa	-	5(1)	5(1)	-	5(1)	14388	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)		
4013	PI 134743	Russia & CISs	5(1)	-	4(2)	-	5(2)	14389	Unknown	Burkina Faso	-	4(1)	-	5(1)	5(2)		
4016	PI 118905	Ethiopia	-	4(1)	4(1)	-	5(1)	14390	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(2)		
4018	PI 131407	Ethiopia	-	5(1)	5(2)	-	5(2)	14391	Unknown	Burkina Faso	-	4(2)	4(2)	-	5(2)	5(1)	
4022	PI 148611	Ethiopia	5(1)	-	4(1)	-	4(2)	14392	Unknown	Burkina Faso	-	5(2)	5(1)	-	4(2)	5(1)	
4027	PI 131816	Ethiopia	-	5(1)	5(1)	-	-	14393	Unknown	Burkina Faso	-	5(2)	5(1)	-	5(1)	5(1)	
4030	PI 121049	Kenya	-	5(1)	5(2)	-	-	14394	Unknown	Burkina Faso	-	5(1)	-	5(1)	5(1)	5(1)	
4038	PI 126289	Russia & CISs	-	5(1)	4(1)	-	5(1)	14395	Unknown	South Africa	-	5(1)	5(1)	-	-	-	
4039	PI 126290	Russia & CISs	-	4(1)	5(1)	-	5(1)	14396	Unknown	South Africa	-	5(1)	5(2)	-	-	-	
4041	PI 131706	Argentina	5(1)	-	5(1)	-	5(1)	14397	Unknown	South Africa	-	5(1)	4(2)	-	5(1)	5(1)	
4090	PI 24752	Argentina	-	5(1)	5(1)	-	5(1)	14398	Unknown	South Africa	-	5(1)	4(2)	-	5(1)	5(1)	
4093	PI 267321	India	-	5(1)	4(1)	-	5(1)	14399	Unknown	South Africa	-	5(1)	-	-	-	-	
4092	PI 267322	India	-	5(1)	5(1)	-	5(1)	14395	Unknown	South Africa	-	5(1)	5(1)	-	4(2)	5(1)	
4095	PI 274734	South Africa	-	4(1)	5(1)	-	5(1)	14396	Unknown	South Africa	-	5(1)	5(1)	-	-	-	
4094	PI 274735	South Africa	-	5(1)	5(1)	-	-	14397	Unknown	South Africa	-	5(1)	2(1)	-	5(1)	5(1)	
4095	PI 274736	South Africa	-	5(1)	4(2)	-	5(1)	14398	Unknown	South Africa	-	4(1)	5(2)	-	5(2)	4(1)	
4096	PI 274737	South Africa	-	5(1)	5(1)	-	5(1)	14399	Unknown	South Africa	-	5(1)	-	-	5(1)	5(1)	
4097	PI 274738	South Africa	-	5(1)	5(1)	-	5(1)	14390	Unknown	South Africa	-	5(1)	-	2(1)	-	5(1)	5(1)
4098	PI 302135	India	5(1)	-	5(2)	-	5(1)	14391	Unknown	South Africa	-	5(2)	-	-	5(1)	5(1)	
4099	Southwest Africa	Russia & CISs	5(1)	-	5(2)	-	5(2)	14392	Unknown	South Africa	-	5(1)	-	4(2)	5(1)	-	
4100	Southwest Africa	Argentina	-	5(1)	5(1)	-	5(1)	14393	Unknown	South Africa	-	5(1)	-	4(2)	-	-	
4102	Cameroon	Russia & CISs	-	5(1)	5(1)	-	5(1)	14394	Unknown	South Africa	-	5(1)	-	4(2)	-	-	
4108	Dechra	Russia & CISs	-	4(1)	4(1)	-	5(2)	14395	Unknown	South Africa	-	5(1)	-	-	5(1)	4(1)	
4109	Dechra	Portugal	-	5(1)	5(1)	-	5(2)	14396	Unknown	Burkina Faso	-	5(1)	-	5(1)	-	5(1)	
4112	S. africana, Bf	Myanmar	5(1)	-	-	-	-	14397	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4114	PI 267105	Russia & CISs	-	4(1)	5(2)	-	5(1)	14398	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4115	PI 267106	Russia & CISs	-	5(1)	5(1)	-	5(1)	14399	Unknown	Burkina Faso	-	5(1)	-	-	-	-	
4119	PI 267111	Russia & CISs	-	4(1)	4(1)	-	5(1)	14393	Unknown	Burkina Faso	-	5(1)	-	-	-	-	
4122	PI 267113	Russia & CISs	5(1)	-	3(2)	-	5(1)	14394	Unknown	Burkina Faso	-	5(1)	-	5(1)	-	4(1)	4(1)
4126	PI 126295	Russia & CISs	-	5(1)	5(1)	-	5(1)	14395	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4131	S. africana	Portugal	-	5(1)	5(1)	-	5(1)	14396	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4133	S. africana	India	-	5(1)	5(1)	-	5(1)	14397	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4134	S. africana	Portugal	-	4(1)	5(1)	-	5(1)	14398	Unknown	Burkina Faso	-	5(1)	-	-	5(1)	5(1)	
4135	S. africana	India	-	5(1)	5(2)	-	5(1)	14399	Unknown	South Africa	-	5(1)	-	-	-	-	
4137	S. africana	Argentina	-	5(1)	3(2)	-	5(1)	14400	Unknown	South Africa	-	4(1)	5(1)	-	4(2)	5(1)	
4138	S. africana	Russia & CISs	-	5(1)	5(2)	-	5(1)	14401	Unknown	South Africa	-	5(1)	-	-	4(2)	5(1)	
4145	S. africana	South Africa	-	5(2)	5(2)	-	5(1)	14402	Unknown	South Africa	-	5(1)	-	-	5(1)	2(1)	
4146	S. africana	Papa New Guinea	5(1)	-	5(1)	-	5(2)	14403	Unknown	Malawi	-	5(1)	-	-	-	-	
4147	S. africana	Portugal	5(1)	-	5(1)	-	5(2)	14404	Unknown	Malawi	-	5(1)	-	-	-	-	
4148	S. africana	Portugal	5(1)	-	5(1)	-	5(1)	14405	Unknown	Malawi	-	5(1)	-	-	-	-	
4149	PI 102126	Argentina	-	5(1)	5(1)	-	5(1)	14406	Unknown	Malawi	-	5(1)	-	-	-	-	
4153	PI 102161	Argentina	-	5(2)	5(2)	-	5(1)	14407	Unknown	Malawi	-	5(1)	-	-	-	-	
4154	PI 102162	Russia & CISs	-	5(2)	5(1)	-	5(1)	14408	Unknown	Malawi	-	5(1)	-	-	-	-	
4155	S. africana	Russia & CISs	-	5(2)	5(2)	-	5(2)	14409	Unknown	Malawi	-	5(1)	-	-	-	-	
4160	PI 125719	Ethiopia	5(1)	-	-	-	5(1)	14410	Unknown	Malawi	-	5(1)	-	-	-	-	
4206	PI 102711	Australia	5(1)	-	5(1)	-	5(2)	14411	Unknown	Malawi	-	5(1)	-	-	-	-	
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4212	Unknown	Angola	-	4(2)	5(1)	-	5(1)	14413	Unknown	Malawi	-	5(2)	-	5(1)	5(1)	-	
4213	Outlets of Angola	Angola	-	5(1)	5(2)	-	5(1)	14414	Unknown	Malawi	-	5(1)	-	-	-	-	
4217	Caribe	Angola	-	4(2)	4(1)	-	5(1)	14415	Unknown	Malawi	-	5(1)	-	-	-	-	
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4231	Unknown	Angola	5(1)	-	2(1)	-	5(1)	14422	Unknown	Zimbabwe	-	5(1)	-	-	5(1)	4(1)	
4236	Unknown	Angola	5(1)	3(1)	5(1)	-	5(1)	14423	Unknown	Zimbabwe	-	5(1)	4(2)	3(1)	-	5(1)	4(1)
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4264	S. africana	Angola	-	5(1)	4(2)	-	-	14448	Unknown	South Africa	-	5(1)	-	-	1(1)	5(1)	
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4287	Unknown																

IS No	Abbreviated accession	Source country	SF					IS No	Alternate accession identifier	Source country	SF						
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15251	2-5-3-10	Cameroon	-	4(1)	-	-	4(2)	5(2)	15336	2-5-8-2	Cameroon	-	5(1)	-	-	4(1)	-
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15275	2-5-4-18	Cameroon	-	4(1)	4(2)	-	-	5(1)	15357	2-5-10-1	Cameroon	-	5(1)	-	-	5(1)	-
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15281	2-5-4-25	Cameroon	-	4(1)	5(1)	-	-	4(1)	15363	2-5-11-3	Cameroon	-	5(1)	4(1)	-	4(2)	-
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15295	2-5-5-17	Cameroon	-	5(1)	-	-	-	5(1)	15377	2-5-11-8	Cameroon	-	5(1)	-	-	4(1)	-
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15297	2-5-5-19	Cameroon	-	5(1)	5(1)	-	-	5(1)	15379	2-5-11-10	Cameroon	-	5(1)	-	-	5(1)	5(1)
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15306	2-5-5-30	Cameroon	-	5(1)	5(1)	-	-	4(1)	15388	2-5-11-2	Cameroon	-	5(1)	-	-	5(1)	-
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15314	2-5-5-40	Cameroon	-	4(1)	-	-	-	5(1)	15396	2-5-11-11	Cameroon	-	4(1)	-	-	5(1)	-
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15316	2-5-5-2	Cameroon	-	5(1)	-	-	-	5(2)	15398	2-5-11-2	Cameroon	-	5(1)	5(1)	-	5(1)	-
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15319	2-5-5-6	Cameroon	-	5(1)	5(1)	-	-	5(1)	15401	2-5-11-6	Cameroon	-	4(1)	-	-	4(1)	-
15320	2-5-5-7	Cameroon	-	5(1)	5(1)	-	-	5(1)	15402	2-5-11-7	Cameroon	-	5(1)	-	-	4(1)	5(2)
15321	2-5-5-8	Cameroon	-	5(1)	5(1)	-	-	4(1)	15403	2-5-11-8	Cameroon	-	5(1)	-	-	4(1)	5(1)
15322	2-5-5-9	Cameroon	-	4(1)	-	-	-	-	15404	2-5-11-9	Cameroon	-	5(1)	5(1)	-	4(1)	5(1)
15323	2-5-5-10	Cameroon	-	5(1)	-	-	-	5(2)	15405	2-5-11-10	Cameroon	-	4(1)	-	-	5(1)	-
15324	2-5-5-11	Cameroon	-	4(1)	-	-	-	-	15406	2-5-11-10	Cameroon	-	4(1)	-	-	5(1)	-
15325	2-5-5-12	Cameroon	-	5(1)	-	-	-	-	15407	2-5-11-10	Cameroon	-	5(1)	-	-	5(1)	-
15326	2-5-5-13	Cameroon	-	5(1)	-	-	-	4(1)	15408	2-5-11-11	Cameroon	-	5(1)	-	-	4(1)	5(1)
15327	2-5-5-14	Cameroon	-	5(1)	-	-	-	-	15409	2-5-11-12	Cameroon	-	5(1)	-	-	4(1)	-
15328	2-5-5-15	Cameroon	-	5(1)	5(1)	-	-	4(1)	15410	2-5-11-13	Cameroon	-	5(1)	-	-	5(1)	5(2)
15329	2-5-5-16	Cameroon	-	5(1)	5(1)	-	-	-	15411	2-5-11-13	Cameroon	-	5(1)	-	-	5(1)	-
15330	2-5-5-18	Cameroon	-	5(1)	-	-	-	4(1)	15412	2-5-11-13	Cameroon	-	5(1)	-	-	5(1)	-
15331	2-5-5-19	Cameroon	-	5(1)	-	-	-	-	15413	2-5-11-13	Cameroon	-	5(1)	-	-	5(1)	-
15332	2-5-5-19	Cameroon	-	5(1)	-	-	-	5(1)	15414	2-5-11-13	Cameroon	-	5(1)	5(1)	-	5(1)	-
15333	2-5-5-19	Cameroon	-	5(1)	-	-	-	5(1)	15415	2-5-11-14	Cameroon	-	5(1)	5(1)	-	4(1)	-
15334	2-5-5-11	Cameroon	-	5(1)	5(1)	-	-	4(1)	15417	2-5-11-15	Cameroon	-	4(1)	-	-	4(1)	-
15335	2-5-5-1	Cameroon	-	5(1)	-	-	-	4(1)	15418	2-5-11-19	Cameroon	-	4(1)	5(1)	-	4(1)	-

IS No	Alternative Acquisition description	Source country	SI			SI			IS No	Alternative acquisition identifier	Source country	SI			IS No	Alternative acquisition identifier	Source country	SI				
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15421	2-1-5-1	Cameroon		5(1)			3(1)	15109	2-4-4-1	Cameroon		3(1)			15109	2-4-4-1	Cameroon		3(1)			5(1)
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15423	2-1-5-3	Cameroon		5(1)			4(1)	15511	2-4-4-3	Cameroon	3(1)	4(1)			15511	2-4-4-3	Cameroon		3(1)	4(1)		5(1)
15424	2-1-5-4	Cameroon		5(1)				15512	2-4-4-4	Cameroon		5(1)	3(1)		15512	2-4-4-4	Cameroon		5(1)	3(1)		5(1)
15425	2-1-5-7	Cameroon		3(1)	3(1)		4(2)	15513	2-4-4-5	Cameroon		3(1)	3(1)		15513	2-4-4-5	Cameroon		3(1)	3(1)		4(1)
15426	2-1-5-8	Cameroon		5(1)	3(1)		4(2)	15514	2-4-4-7	Cameroon	3(1)	4(1)			15514	2-4-4-7	Cameroon		3(1)	4(1)		4(1)
15427	2-1-5-9	Cameroon		4(1)			3(2)	15515	2-4-4-8	Cameroon		3(1)			15515	2-4-4-8	Cameroon		3(1)			4(1)
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15429	2-1-7-1	Cameroon		5(1)	3(1)		3(1)	15517	2-4-5-3	Cameroon	4(1)	5(1)			15517	2-4-5-3	Cameroon		4(1)	5(1)		3(1)
15430	2-1-8-2	Cameroon		5(1)				15518	2-4-5-5	Cameroon		5(1)	3(1)		15518	2-4-5-5	Cameroon		5(1)	3(1)		5(1)
15431	2-1-9-1	Cameroon		4(1)				15519	2-4-5-6	Cameroon		5(1)			15519	2-4-5-6	Cameroon		5(1)			4(1)
15432	2-1-11-2	Cameroon		5(1)				15520	2-4-5-9	Cameroon	3(1)	3(1)	3(1)		15520	2-4-5-9	Cameroon		3(1)	3(1)	3(1)	4(1)
15433	2-1-11-3	Cameroon		5(1)	4(1)		4(1)	15521	2-4-6-2	Cameroon		5(1)	3(1)		15521	2-4-6-2	Cameroon		5(1)	3(1)		5(1)
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15435	2-1-12-5	Cameroon		3(1)	3(1)		4(1)	15523	2-4-6-7	Cameroon		4(1)			15523	2-4-6-7	Cameroon		4(1)			5(1)
15436	2-1-12-6	Cameroon		5(1)				15524	2-4-6-8	Cameroon	3(1)	5(1)			15524	2-4-6-8	Cameroon		3(1)	5(1)		5(1)
15437	2-1-11-1	Cameroon		5(1)	3(1)		1(6)	15525	2-4-7-1	Cameroon		5(1)			15525	2-4-7-1	Cameroon		5(1)			3(1)
15438	2-1-11-5	Cameroon		4(1)			1(4)	15526	2-4-7-4	Cameroon		5(1)			15526	2-4-7-4	Cameroon		5(1)			3(1)
15439	2-1-12-1	Cameroon		5(1)			5(1)	15527	2-4-7-7	Cameroon		5(1)			15527	2-4-7-7	Cameroon		5(1)			3(1)
15442	2-1-13-3	Cameroon		3(1)				15528	2-4-7-6	Cameroon		5(1)			15528	2-4-7-6	Cameroon		5(1)			5(1)
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15444	2-1-14-2	Cameroon		3(1)				15530	2-4-8-1	Cameroon		3(1)			15530	2-4-8-1	Cameroon		3(1)			5(1)
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15446	2-1-16-6	Cameroon		3(1)	1(2)		5(2)	15532	2-4-8-6	Cameroon		3(1)			15532	2-4-8-6	Cameroon		3(1)			3(1)
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15448	2-1-19-7	Cameroon		5(1)	5(1)		3(9)	15534	2-4-8-11	Cameroon		5(1)			15534	2-4-8-11	Cameroon		5(1)			4(1)
15449	2-1-19-10	Cameroon		3(2)	3(1)		1(9)	15535	2-4-8-11	Cameroon		3(1)	3(1)		15535	2-4-8-11	Cameroon		3(1)	3(1)		4(1)
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15451	2-1-22-2	Cameroon		5(1)	3(1)		3(9)	15539	2-4-9-3	Cameroon	5(1)	5(1)			15539	2-4-9-3	Cameroon		5(1)	5(1)		4(1)
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15455	2-1-25-3	Cameroon		5(1)			3(9)	15544	2-4-10-4	Cameroon		5(1)			15544	2-4-10-4	Cameroon		5(1)			5(1)
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15458	2-2-1-1	Cameroon	4(1)	5(1)				15546	2-4-16-8	Cameroon		5(1)	4(1)		15546	2-4-16-8	Cameroon		5(1)	4(1)		4(1)
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15462	2-2-1-1	Cameroon		4(1)				15550	2-5-4-3	Cameroon		4(1)			15550	2-5-4-3	Cameroon		4(1)			5(1)
15463	2-2-1-2	Cameroon		3(1)	4(1)		6(1)	15551	2-5-4-2	Cameroon		3(1)			15551	2-5-4-2	Cameroon		3(1)			5(1)
15464	2-2-1-6	Cameroon		5(1)	3(1)		4(2)	15553	2-5-4-3	Cameroon		5(1)			15553	2-5-4-3	Cameroon		5(1)			5(1)
15465	2-2-2-9	Cameroon		5(1)				15554	2-5-4-3	Cameroon		5(1)	3(1)		15554	2-5-4-3	Cameroon		5(1)	3(1)		5(1)
15467	2-5-3-1	Cameroon		4(1)				15555	2-5-4-6	Cameroon		4(1)	4(1)		15555	2-5-4-6	Cameroon		4(1)	4(1)		3(1)
15468	2-2-4-3	Cameroon		5(1)			4(1)	15556	2-5-4-7	Cameroon		5(1)			15556	2-5-4-7	Cameroon		5(1)			4(1)
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15470	2-2-5-3	Cameroon		5(1)			4(1)	15558	2-5-4-9	Cameroon		5(1)			15558	2-5-4-9	Cameroon		5(1)			5(1)
15471	2-2-5-4	Cameroon		4(1)			3(1)	15561	2-5-5-4	Cameroon		4(1)			15561	2-5-5-4	Cameroon		4(1)			5(1)
15472	2-2-5-5	Cameroon	2(1)	3(1)			4(1)	15562	2-5-5-5	Cameroon		3(1)			15562	2-5-5-5	Cameroon		3(1)			5(1)
15473	2-2-6-1	Cameroon		5(1)	4(1)		3(1)	15563	2-5-5-8	Cameroon		5(1)	3(1)		15563	2-5-5-8	Cameroon		5(1)	3(1)		5(1)
15474	2-2-6-2	Cameroon		4(2)	3(1)		3(2)	15564	2-5-5-8	Cameroon		4(1)			15564	2-5-5-8	Cameroon		4(1)			5(1)
15475	2-2-6-4	Cameroon		5(1)			1(4)	15565	2-5-6-2	Cameroon	4(1)	1(2)			15565	2-5-6-2	Cameroon		4(1)	1(2)		5(1)
15476	2-2-6-8	Cameroon		5(1)	3(1)			15566	2-5-6-3	Cameroon		5(1)			15566	2-5-6-3	Cameroon		5(1)			5(1)
15477	2-2-6-6	Cameroon		5(1)			3(1)	15568	2-5-6-8	Cameroon		5(1)			15568	2-5-6-8	Cameroon		5(1)			5(1)
15478	2-2-6-7	Cameroon		5(1)			3(1)	15609	2-5-6-9	Cameroon	4(1)	4(1)			15609	2-5-6-9	Cameroon		4(1)	4(1)		5(1)
15479	2-2-7-1	Cameroon		5(1)			5(1)	15570	2-5-6-10	Cameroon		5(1)	3(1)		15570	2-5-6-10	Cameroon		5(1)	3(1)		4(1)
15480	2-2-7-2	Cameroon		4(1)	3(1)		5(2)	15571	2-5-6-11	Cameroon		4(1)			15571	2-5-6-11	Cameroon		4(1)			5(1)
15481	2-2-7-3	Cameroon		5(1)			5(1)	15572	2-5-6-12	Cameroon		5(1)			15572	2-5-6-12	Cameroon		5(1)			5(1)
15482	2-2-7-4	Cameroon		5(1)			3(1)	15573	2-5-6-13	Cameroon		5(1)			15573	2-5-6-13	Cameroon		5(1)			5(1)
15483	2-2-7-6	Cameroon		4(1)	4(1)		3(1)	15574	2-5-1-14	Cameroon	2(1)	3(1)			15574	2-5-1-14	Cameroon		2(1)	3(1)		5(1)
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15485	2-2-6-1	Cameroon		5(1)	4(1)		3(1)	15579	2-5-6-21	Cameroon		5(1)			15579	2-5-6-21	Cameroon		5(1)			5(1)
15486	2-2-6-2	Cameroon		4(1)	4(1)		3(1)	15580	2-5-6-22	Cameroon		4(1)			15580	2-5-6-22	Cameroon		4(1)			4(1)
15487	2-2-6-3	Cameroon		5(1)				15581	2-5-6-23	Cameroon		5(1)			15581	2-5-6-23	Cameroon		5(1)			5(1)
15488	2-2-6-4	Cameroon	3(1)	3(1)			3(1)	15583	2-5-7-2	Cameroon		3(1)	3(1)		15583	2-5-7-2	Cameroon		3(1)	3(1)		4(1)
15489	2-2-10-1	Cameroon		4(1)			3(1)	15584	2-5-8-1	Cameroon		4(1)	3(1)		15584	2-5-8-1	Cameroon		4(1)	3(1)		5(1)
15490	2-2-10-2	Cameroon		5(1)	3(1)		3(1)	15586	2-5-8-2	Cameroon		5(1)	3(1)		15586	2-5-8-2	Cameroon		5(1)	3(1)		5(1)
15491	2-2-10-4	Cameroon		4(1)			5(1)	15588	2-5-10-2	Cameroon		4(1)			15588	2-5-10-2	Cameroon		4(1)			3(1)
15492	2-4-4-1	Cameroon		5(1)	3(1)		4(1)	15589	3-1-1-1	Cameroon		5(1)			15589	3-1-1-1	Cameroon		5(1)			

IS No	Alternate accession identifier	Source country	SP					IS No	Alternate accession identifier	Source country	SP				
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15602	4-1-7-2	Cameroon	-	4(1)	-	-	-	15693	4-1-3-7	Cameroon	-	5(1)	-	-	-
15604	4-1-8-1	Cameroon	-	3(1)	-	-	-	15694	4-1-4-1	Cameroon	-	3(1)	-	-	-
15605	4-1-8-3	Cameroon	-	3(1)	-	-	-	15695	4-1-4-2	Cameroon	-	3(1)	-	-	3(2)
15606	4-1-8-6	Cameroon	-	3(1)	3(1)	-	3(2)	15696	4-1-4-3	Cameroon	-	3(1)	-	-	4(1)
15607	4-1-10-1	Cameroon	-	4(2)	-	-	-	15697	4-1-4-4	Cameroon	-	3(1)	-	-	3(1)
15608	4-1-10-1	Cameroon	-	3(1)	3(1)	-	4(2)	15697	4-1-4-5	Cameroon	2(1)	3(1)	3(1)	-	3(2)
15609	4-1-10-1	Cameroon	-	3(1)	-	-	-	15698	4-1-4-6	Cameroon	-	3(1)	3(1)	-	3(1)
15610	4-1-10-4	Cameroon	-	3(1)	3(1)	-	4(1)	15699	4-1-4-7	Cameroon	-	3(2)	-	-	4(1)
15611	4-1-10-5	Cameroon	-	3(1)	-	-	-	15700	4-1-4-8	Cameroon	-	3(1)	-	-	3(1)
15612	4-2-8-1	Cameroon	-	4(1)	3(1)	-	4(1)	15701	4-1-4-9	Cameroon	2(1)	3(2)	-	-	3(1)
15613	4-2-8-2	Cameroon	-	3(1)	-	-	3(2)	15702	4-1-4-10	Cameroon	-	3(2)	2(1)	1(1)	3(1)
15614	4-2-8-5	Cameroon	-	3(1)	-	-	3(1)	15703	4-1-4-11	Cameroon	2(1)	4(1)	-	-	-
15615	4-2-8-7	Cameroon	-	4(1)	-	-	-	15704	4-1-5-1	Cameroon	-	3(1)	-	-	4(1)
15616	4-2-9-1	Cameroon	-	4(1)	3(1)	-	-	15705	4-1-5-2	Cameroon	-	3(1)	-	-	-
15617	4-2-9-3	Cameroon	3(1)	3(1)	-	-	3(1)	15706	4-1-5-3	Cameroon	-	3(1)	-	-	3(1)
15618	4-2-9-5	Cameroon	-	3(1)	2(1)	-	3(1)	15707	4-1-5-4	Cameroon	-	3(1)	-	-	-
15619	4-2-10-2	Cameroon	-	4(1)	-	-	4(2)	15708	4-1-5-5	Cameroon	-	3(1)	2(1)	-	3(2)
15620	4-2-11-1	Cameroon	-	3(2)	-	-	-	15709	4-1-5-6	Cameroon	3(1)	3(1)	3(2)	-	3(2)
15621	4-2-11-2	Cameroon	-	4(1)	-	-	-	15710	4-1-5-7	Cameroon	-	3(1)	-	-	-
15622	4-2-11-3	Cameroon	-	3(1)	3(1)	-	3(1)	15711	4-1-5-8	Cameroon	-	3(1)	3(2)	-	3(1)
15623	4-2-11-5	Cameroon	-	3(1)	2(1)	-	3(1)	15712	4-1-5-9	Cameroon	-	3(1)	-	-	-
15624	4-2-11-6	Cameroon	-	3(1)	2(1)	-	4(1)	15713	4-1-5-10	Cameroon	-	4(1)	-	-	3(2)
15625	4-2-11-6	Cameroon	-	3(1)	2(1)	-	4(1)	15714	4-1-5-11	Cameroon	-	3(2)	-	-	-
15626	4-2-12-2	Cameroon	-	4(1)	-	-	-	15715	4-1-5-12	Cameroon	-	3(1)	-	-	-
15627	4-2-12-5	Cameroon	-	3(1)	-	-	3(1)	15715	4-1-5-13	Cameroon	-	3(1)	2(1)	1(1)	3(1)
15628	4-2-13-1	Cameroon	-	3(1)	-	-	3(1)	15716	4-1-5-14	Cameroon	-	3(1)	3(1)	-	3(1)
15629	4-2-13-2	Cameroon	-	3(1)	-	-	3(1)	15717	4-1-5-15	Cameroon	-	3(1)	-	-	-
15630	4-2-13-1	Cameroon	-	4(1)	3(1)	-	3(2)	15718	4-1-5-16	Cameroon	-	3(1)	-	-	-
15631	4-2-13-1	Cameroon	-	4(1)	3(1)	-	3(2)	15719	4-1-5-17	Cameroon	-	3(1)	-	-	-
15632	4-2-13-1	Cameroon	-	4(1)	3(1)	-	3(2)	15720	4-1-5-18	Cameroon	-	3(1)	2(1)	-	3(2)
15633	4-2-13-1	Cameroon	-	3(1)	2(1)	-	3(2)	15721	4-1-5-19	Cameroon	-	3(1)	3(1)	-	3(2)
15634	4-2-13-1	Cameroon	-	3(1)	-	-	-	15722	4-1-5-20	Cameroon	-	3(1)	-	-	3(1)
15635	4-2-13-2	Cameroon	-	3(1)	2(1)	-	3(1)	15722	4-1-5-21	Cameroon	-	3(1)	2(1)	-	3(2)
15636	4-2-17-2	Cameroon	-	3(1)	3(1)	-	3(1)	15723	4-1-5-22	Cameroon	-	3(1)	-	-	-
15637	4-2-17-4	Cameroon	-	3(1)	2(1)	-	3(1)	15724	4-1-5-23	Cameroon	-	3(1)	-	-	-
15638	4-2-17-4	Cameroon	-	3(1)	2(1)	-	3(1)	15725	4-1-5-24	Cameroon	-	3(1)	-	-	-
15639	4-2-21-1	Cameroon	-	4(1)	-	-	-	15725	4-1-5-25	Cameroon	-	4(1)	-	-	-
15640	4-1-1-1	Cameroon	-	3(2)	-	-	-	15726	4-1-6-1	Cameroon	-	3(1)	-	-	-
15641	4-1-1-2	Cameroon	-	4(1)	-	-	3(2)	15727	4-1-6-2	Cameroon	4(1)	4(1)	-	-	-
15642	4-1-1-3	Cameroon	-	3(1)	2(1)	-	3(2)	15728	4-1-6-3	Cameroon	-	3(1)	2(1)	-	-
15643	4-1-1-4	Cameroon	-	3(1)	-	-	-	15729	4-1-6-4	Cameroon	-	3(1)	-	-	-
15644	4-1-1-5	Cameroon	-	3(1)	-	-	-	15730	4-1-6-5	Cameroon	-	3(1)	-	-	-
15645	4-1-1-7	Cameroon	-	3(1)	2(1)	-	3(1)	15731	4-1-6-6	Cameroon	-	3(1)	3(1)	-	-
15646	4-1-1-7	Cameroon	-	3(1)	2(1)	-	3(1)	15732	4-1-6-7	Cameroon	-	3(1)	3(1)	-	-
15647	4-1-1-8	Cameroon	-	3(1)	-	-	-	15733	4-1-6-8	Cameroon	-	3(1)	2(1)	-	3(1)
15648	4-1-1-9	Cameroon	-	3(1)	2(1)	-	3(2)	15734	4-1-6-9	Cameroon	-	3(1)	-	-	-
15649	4-1-1-10	Cameroon	-	3(1)	-	-	-	15735	4-1-6-10	Cameroon	-	3(1)	-	-	-
15650	4-1-1-11	Cameroon	-	3(1)	2(1)	-	3(1)	15735	4-1-6-11	Cameroon	-	3(1)	-	-	-
15651	4-1-1-12	Cameroon	-	3(1)	-	-	-	15736	4-1-6-12	Cameroon	-	3(1)	-	-	-
15652	4-1-1-13	Cameroon	-	3(1)	3(1)	-	3(1)	15737	4-1-6-13	Cameroon	-	3(1)	-	-	-
15653	4-1-1-14	Cameroon	-	3(1)	3(1)	-	3(1)	15738	4-1-6-14	Cameroon	-	3(1)	-	-	-
15654	4-1-1-15	Cameroon	-	3(1)	3(1)	-	3(1)	15739	4-1-6-15	Cameroon	-	3(1)	-	-	-
15655	4-1-1-16	Cameroon	-	3(1)	3(1)	-	3(1)	15740	4-1-6-16	Cameroon	-	3(1)	-	-	-
15656	4-1-1-16	Cameroon	-	3(1)	3(1)	-	3(1)	15741	4-1-6-17	Cameroon	2(1)	4(1)	-	-	-
15657	4-1-1-17	Cameroon	-	4(1)	-	-	-	15742	4-1-7-1	Cameroon	-	3(1)	-	-	-
15658	4-1-1-17	Cameroon	-	3(1)	3(2)	-	3(1)	15743	4-1-7-2	Cameroon	-	3(1)	-	-	-
15659	4-1-1-18	Cameroon	-	3(1)	3(2)	-	3(1)	15744	4-1-7-3	Cameroon	-	3(1)	-	-	-
15660	4-1-1-19	Cameroon	-	3(1)	-	-	-	15745	4-1-7-4	Cameroon	-	3(1)	1(1)	-	-
15661	4-1-1-20	Cameroon	-	3(1)	-	-	3(1)	15745	4-1-7-5	Cameroon	-	3(1)	-	-	3(1)
15662	4-1-2-1	Cameroon	-	3(1)	-	-	-	15746	4-1-7-6	Cameroon	-	3(1)	-	-	-
15663	4-1-2-2	Cameroon	-	3(1)	-	-	-	15747	4-1-7-7	Cameroon	-	3(1)	-	-	-
15664	4-1-2-3	Cameroon	-	3(1)	4(1)	-	4(1)	15748	4-1-7-8	Cameroon	-	3(1)	-	-	3(1)
15665	4-1-2-4	Cameroon	-	3(1)	4(1)	-	4(1)	15749	4-1-7-9	Cameroon	-	3(1)	3(1)	-	3(1)
15666	4-1-2-5	Cameroon	-	3(1)	-	-	3(1)	15750	4-1-7-10	Cameroon	3(1)	4(1)	-	-	-
15667	4-1-2-6	Cameroon	-	3(1)	-	-	3(1)	15751	4-1-7-11	Cameroon	-	3(1)	-	-	3(1)
15668	4-1-2-6	Cameroon	-	3(1)	-	-	3(1)	15752	4-1-7-12	Cameroon	-	3(1)	3(1)	-	3(1)
15669	4-1-2-6	Cameroon	-	3(1)	3(1)	-	3(1)	15753	4-1-7-13	Cameroon	-	3(1)	-	-	3(1)
15670	4-1-2-6	Cameroon	-	3(1)	3(1)	-	3(1)	15754	4-1-7-14	Cameroon	-	3(1)	-	-	3(1)
15671	4-1-2-10	Cameroon	-	3(1)	3(1)	-	3(1)	15755	4-1-7-15	Cameroon	-	3(1)	-	-	3(1)
15672	4-1-2-11	Cameroon	-	3(1)	3(1)	-	3(1)	15755	4-1-7-16	Cameroon	-	3(1)	3(1)	-	3(1)
15673	4-1-2-12	Cameroon	-	3(1)	-	-	4(1)	15756	4-1-7-17	Cameroon	-	3(1)	-	-	3(1)
15674	4-1-2-13	Cameroon	-	3(1)	3(1)	-	4(1)	15757	4-1-7-18	Cameroon	-	3(1)	-	-	3(1)
15675	4-1-2-14	Cameroon	-	3(1)	-	-	4(1)	15758	4-1-7-19	Cameroon	-	3(1)	3(1)	-	3(1)
15676	4-1-3-1	Cameroon	-	4(1)	2(1)	-	3(1)	15759	4-1-7-20	Cameroon	-	3(1)	-	-	3(1)
15677	4-1-3-2	Cameroon	-	4(1)	-	-	4(1)	15760	4-1-7-21	Cameroon	-	3(1)	3(1)	-	3(1)
15678	4-1-3-1	Cameroon	-	3(1)	3(1)	-	3(1)	15761	4-1-7-22	Cameroon	-	3(1)	2(1)	-	3(1)
15679	4-1-3-1	Cameroon	-	3(1)	3(1)	-	3(1)	15762	4-1-7-23	Cameroon	-	3(1)	2(1)	-	3(1)
15680	4-1-3-1	Cameroon	-	3(1)	3(1)	-	3(1)	15763	4-1-7-24	Cameroon	-	3(1)	2(1)	-	3(1)
15681	4-1-3-1	Cameroon	-	3(1)	3(1)	-	3(1)	15764	4-1-7-25	Cameroon	-	3(1)	2(1)	-	3(1)
15682	4-1-3-2	Cameroon	-	4(1)	3(1)	-	3(1)	15765	4-1-7-26	Cameroon	-	3(1)	-	-	3(1)
15683	4-1-3-2	Cameroon	-	4(1)	3(1)	-	3(1)	15766	4-1-7-27	Cameroon	-	3(1)	3(1)	-	3(1)
15684	4-1-3-2	Cameroon	-	4(1)	3(1)	-	3(1)	15767	4-1-7-28	Cameroon	-	3(1)	3(1)	-	3(1)
15685	4-1-3-10	Cameroon	-	3(1)	3(1)	-	3(1)	15768	4-1-7-29	Cameroon	-	3(1)	3(1)	-	3(1)
15686	4-1-3-11	Cameroon	-	3(1)	3(1)	-	3(1)	15769	4-1-7-30	Cameroon	-	3(1)	3(1)	-	3(1)
15687	4-1-3-12	Cameroon	-	3(1)	-	-	-	15770	4-1-7-31	Cameroon	-	3(1)	3(1)	-	3(1)
15688	4-1-3-13	Cameroon	-	3(1)	4(1)	-	-	15771	4-1-7-32	Cameroon	-	3(1)	-	-	3(1)
15689	4-1-3-14	Cameroon	-	3(1)	3(1)	-	3(1)	15772	4-1-7-33	Cameroon	-	3(1)	3(1)	-	3(1)
15690	4-1-3-15	Cameroon	-	3(1)	-	-	3(1)	15773	4-1-7-34	Cameroon	-	3(1)	3(1)	-	3(1)
15691	4-1-3-16	Cameroon	-	3(1)	-	-	3(1)	15774	4-1-7-35	Cameroon	-	3(1)	3(1)	-	3(1)

IS No	Alternate accession	Source country	Source priority					IS No	Alternate accession	Source country	Source priority				
			R	PR	NR	MR	HR				R	PR	NR	MR	HR
15774	4-1-0-5	Cameroon		4(1)				15854	4-2-8-4	Cameroon		4(2)			
15775	4-1-0-6	Cameroon		5(1)	2(1)	5(1)		15860	4-2-8-4	Cameroon		5(1)			
15776	4-1-0-7	Cameroon		5(2)	4(1)	5(1)	4(2)	15861	4-2-8-5	Cameroon		5(1)			
15777	4-1-0-8	Cameroon		5(2)				15862	4-2-8-6	Cameroon		5(2)			
15778	4-1-10-1	Cameroon		5(1)				15863	4-2-8-7	Cameroon		5(1)			
15779	4-1-10-2	Cameroon		5(2)		5(1)		15864	4-2-9-1	Cameroon		5(1)			
15780	4-1-10-1	Cameroon		5(2)	3(1)	5(1)		15865	4-2-9-2	Cameroon		5(1)			
15781	4-1-10-4	Cameroon		5(1)				15866	4-2-9-3	Cameroon		4(1)			
15782	4-1-10-3	Cameroon		5(1)				15867	4-2-10-1	Cameroon		5(1)			
15784	4-1-10-7	Cameroon		5(2)		5(2)		15868	4-2-10-2	Cameroon		4(2)			
15785	4-1-10-8	Cameroon		5(2)	5(1)	5(1)	5(1)	15869	4-2-10-3	Cameroon	5(1)	5(1)	5(1)	5(1)	
15786	4-1-10-9	Cameroon		5(2)		5(1)		15870	4-2-10-4	Cameroon		5(1)			
15787	4-1-10-11	Cameroon		4(1)				15871	4-2-10-5	Cameroon		5(1)			
15788	4-2-11-10-12	Cameroon		4(1)	5(1)	4(4)	5(1)	15872	4-2-11-1	Cameroon		5(1)			
15789	4-2-1-1	Cameroon		4(1)				15873	4-2-11-2	Cameroon		5(1)			
15791	4-2-1-3	Cameroon		5(2)				15874	4-2-11-3	Cameroon		5(1)	2(1)	5(1)	5(1)
15792	4-2-1-4	Cameroon		5(1)				15875	4-2-11-4	Cameroon		5(1)			
15793	4-2-1-5	Cameroon		5(1)				15876	4-2-11-5	Cameroon		4(1)	4(1)	5(1)	
15794	4-2-1-6	Cameroon		5(2)				15877	4-2-11-6	Cameroon	4(1)	5(1)			
15795	4-2-1-7	Cameroon		5(2)		5(1)		15878	4-2-11-7	Cameroon		4(1)	2(1)	5(1)	
15796	Unknown	Cameroon		5(1)	4(1)	5(1)	5(1)	15879	4-2-11-8	Cameroon		5(1)			
15797	4-2-1-9	Cameroon		4(1)	1(1)	5(1)		15880	4-2-11-9	Cameroon		4(2)			
15798	4-2-1-10	Cameroon		5(2)	2(1)	5(1)		15881	4-2-11-10	Cameroon		5(1)			
15799	4-2-1-11	Cameroon		5(2)	2(1)	5(1)		15882	4-2-11-11	Cameroon		5(1)			
15800	4-2-1-12	Cameroon		5(1)	2(1)	5(1)	5(1)	15883	4-2-11-12	Cameroon		5(1)	5(1)	5(1)	5(1)
15801	4-2-1-13	Cameroon		5(1)		5(1)		15884	4-2-11-13	Cameroon		5(1)			
15802	4-2-1-14	Cameroon		4(1)		5(1)		15885	4-2-11-14	Cameroon		4(1)		5(1)	
15803	4-2-1-22	Cameroon		5(2)		5(2)		15886	4-2-11-22	Cameroon		5(1)	2(1)	5(2)	
15804	4-2-1-23	Cameroon		5(1)		5(1)		15887	4-2-11-23	Cameroon		4(2)	2(1)	5(2)	4(2)
15805	4-2-1-24	Cameroon		5(2)	2(1)	5(1)	4(2)	15888	4-2-11-24	Cameroon		5(1)	5(1)	5(1)	4(2)
15806	4-2-1-25	Cameroon		2(1)	1(1)	4(1)	3(1)	15889	4-2-11-25	Cameroon		5(2)	5(1)	3(1)	5(1)
15807	4-2-1-26	Cameroon		5(1)	4(1)	5(1)	5(1)	15890	4-2-11-26	Cameroon		4(1)	2(1)	5(1)	
15808	4-2-1-27	Cameroon		5(2)	5(1)	5(1)		15891	4-2-11-27	Cameroon		4(2)			
15809	4-2-1-28	Cameroon		5(2)		5(1)		15892	4-2-11-28	Cameroon		2(1)			
15810	4-2-1-29	Cameroon		4(1)	2(1)	5(1)	4(1)	15893	4-2-11-29	Cameroon		5(1)			
15811	4-2-1-30	Cameroon		5(1)	1(1)	5(1)	5(1)	15894	4-2-11-30	Cameroon		5(1)	2(1)	5(1)	
15812	4-2-2-1	Cameroon		5(1)	2(1)	5(1)	5(1)	15895	4-2-11-31	Cameroon		5(1)			
15813	4-2-2-2	Cameroon		5(1)	2(1)	5(1)	5(1)	15896	4-2-11-32	Cameroon		5(1)			
15814	4-2-2-6	Cameroon		5(1)				15897	4-2-11-33	Cameroon		4(1)		5(1)	5(1)
15815	4-2-2-7	Cameroon		5(1)				15898	4-2-11-34	Cameroon		4(1)	5(1)	5(1)	
15816	4-2-2-8	Cameroon		5(1)	2(1)	5(1)	4(1)	15899	4-2-11-35	Cameroon	4(1)	5(1)			
15817	4-2-2-9	Cameroon		5(1)	2(1)	5(1)	4(1)	15900	4-2-11-36	Cameroon		5(1)	2(1)	5(1)	3(1)
15818	4-2-2-10	Cameroon		4(1)	2(1)	5(1)	4(1)	15901	4-2-11-37	Cameroon		5(1)			
15819	4-2-2-11	Cameroon		5(1)	4(1)	5(1)	5(1)	15902	4-2-11-38	Cameroon		5(1)	2(1)	5(1)	4(2)
15820	4-2-2-12	Cameroon		4(1)	4(1)	5(1)	5(1)	15903	4-2-11-39	Cameroon		5(1)			
15821	4-2-2-13	Cameroon		5(1)	1(1)	4(1)	4(1)	15904	4-2-11-40	Cameroon		5(1)	2(1)	5(1)	3(1)
15822	4-2-2-14	Cameroon		5(1)	2(1)	5(1)	4(1)	15905	4-2-11-41	Cameroon		5(1)			
15823	4-2-2-15	Cameroon		5(1)				15906	4-2-11-42	Cameroon		5(1)			
15824	4-2-2-16	Cameroon		5(1)	1(1)	5(1)		15907	4-2-11-43	Cameroon		5(1)	2(1)	5(1)	4(2)
15825	4-2-2-17	Cameroon		5(1)	1(1)	5(1)		15908	4-2-11-44	Cameroon		5(1)			
15826	4-2-3-1	Cameroon		5(1)	2(1)	4(1)	3(1)	15909	4-2-11-45	Cameroon		5(1)			
15827	4-2-3-8	Cameroon		5(1)		5(1)		15910	4-2-11-46	Cameroon	5(1)	4(1)			
15828	4-2-3-9	Cameroon		5(1)		4(2)		15911	4-2-11-47	Cameroon		5(1)			
15829	4-2-3-10	Cameroon		5(1)		5(1)	4(1)	15912	4-2-11-48	Cameroon		5(1)	2(1)	5(1)	4(2)
15830	4-2-3-11	Cameroon		5(1)				15913	4-2-11-49	Cameroon		4(2)	2(1)	5(1)	5(1)
15831	4-2-3-2	Cameroon		4(1)				15914	4-2-11-50	Cameroon		4(2)	3(1)	5(1)	4(2)
15832	4-2-3-3	Cameroon		5(1)	1(1)	4(1)	4(1)	15915	4-2-11-51	Cameroon		5(1)	2(1)	5(1)	4(2)
15833	4-2-3-4	Cameroon		5(1)	2(1)	4(1)	4(1)	15916	4-2-11-52	Cameroon		5(1)	1(1)	5(1)	4(2)
15834	4-2-3-5	Cameroon		5(1)	2(1)	5(1)	4(1)	15917	4-2-11-53	Cameroon		5(1)	1(1)	5(1)	4(2)
15835	4-2-3-6	Cameroon		5(1)	1(1)	5(1)		15918	4-2-11-54	Cameroon		5(1)			
15836	4-2-3-7	Cameroon		5(1)	1(1)	5(1)	4(1)	15919	4-2-11-55	Cameroon		5(1)			
15837	4-2-3-8	Cameroon		5(1)				15920	4-2-11-56	Cameroon		5(1)			
15838	4-2-3-9	Cameroon		5(1)		5(1)	4(2)	15921	4-2-11-57	Cameroon		5(1)			
15839	4-2-3-10	Cameroon		5(1)	1(1)	5(1)	4(1)	15922	4-2-11-58	Cameroon		5(1)			
15840	4-2-3-11	Cameroon		5(1)	1(1)	5(1)	4(2)	15923	4-2-11-59	Cameroon		5(1)	4(1)	5(1)	5(1)
15841	4-2-4-2	Cameroon	5(1)	5(1)	2(1)	5(1)		15924	4-2-11-60	Cameroon		5(1)			
15842	4-2-4-3	Cameroon		5(1)				15925	4-2-11-61	Cameroon		5(1)			
15843	4-2-4-4	Cameroon		5(1)	1(1)	5(1)	4(1)	15926	4-2-11-62	Cameroon		5(1)	4(1)	5(1)	5(1)
15844	4-2-4-5	Cameroon		5(1)	1(1)	5(1)	4(1)	15927	4-2-11-63	Cameroon		5(1)	4(1)	5(1)	5(1)
15845	4-2-4-6	Cameroon		5(1)	1(1)	5(1)	4(1)	15928	4-2-11-64	Cameroon		5(1)	4(1)	5(1)	5(1)
15846	4-2-4-7	Cameroon		5(1)	1(1)	5(1)	4(1)	15929	4-2-11-65	Cameroon		5(1)	4(1)	5(1)	5(1)
15847	4-2-4-8	Cameroon		5(1)	1(1)	5(1)	4(1)	15930	4-2-11-66	Cameroon		5(1)	4(1)	5(1)	5(1)
15848	4-2-4-9	Cameroon		5(1)	1(1)	5(1)	4(1)	15931	4-2-11-67	Cameroon		5(1)	4(1)	5(1)	5(1)
15849	4-2-4-10	Cameroon		5(1)	1(1)	5(1)	4(1)	15932	4-2-11-68	Cameroon		5(1)	4(1)	5(1)	5(1)
15850	4-2-4-11	Cameroon		5(1)	1(1)	5(1)	4(1)	15933	4-2-11-69	Cameroon		5(1)	4(1)	5(1)	5(1)
15851	4-2-4-12	Cameroon		5(1)	1(1)	5(1)	4(1)	15934	4-2-11-70	Cameroon		5(1)	4(1)	5(1)	5(1)
15852	4-2-4-13	Cameroon		5(1)	1(1)	5(1)	4(1)	15935	4-2-11-71	Cameroon		5(1)	4(1)	5(1)	5(1)
15853	4-2-4-14	Cameroon		5(1)	1(1)	5(1)	4(1)	15936	4-2-11-72	Cameroon		5(1)	4(1)	5(1)	5(1)
15854	4-2-4-15	Cameroon	5(1)	4(1)	3(1)	5(1)		15937	4-2-11-73	Cameroon		5(1)	4(1)	5(1)	5(1)
15855	4-2-4-16	Cameroon		4(1)	1(1)	5(1)	5(1)	15938	4-2-11-74	Cameroon		5(1)			
15856	4-2-4-17	Cameroon		5(1)	1(1)	5(1)	4(1)	15939	4-2-11-75	Cameroon		5(1)			
15857	4-2-4-18	Cameroon		5(1)	1(1)	5(1)	4(1)	15940	4-2-11-76	Cameroon		5(1)			
15858	4-2-4-19	Cameroon		5(1)	1(1)	5(1)	4(1)	15941	4-2-11-77	Cameroon		5(1)			
15859	4-2-4-20	Cameroon		5(1)	1(1)	5(1)	4(1)	15942	4-2-11-78	Cameroon		5(1)			
15860	4-2-4-21	Cameroon		5(1)	1(1)	5(1)	4(1)	15943	4-2-11-79	Cameroon		5(1)			
15861	4-2-4-22	Cameroon		5(1)	1(1)	5(1)	4(1)	15944	4-2-11-80	Cameroon		5(1)			
15862	4-2-4-23	Cameroon		5(1)	1(1)	5(1)	4(1)	15945	4-2-11-81	Cameroon		5(1)			
15863	4-2-4-24	Cameroon		5(1)	1(1)	5(1)	4(1)	15946	4-2-11-82	Cameroon		5(1)			
15864	4-2-4-25	Cameroon		5(1)	1(1)	5(1)	4(1)	15947	4-2-11-83	Cameroon		5(1)			
15865	4-2-4-26	Cameroon		5(1)	1(1)	5(1)	4(1)	15948	4-2-11-84	Cameroon		5(1)			
15866	4-2-4-27	Cameroon		5(1)	1(1)	5(1)	4(1)	15949	4-2-11-85	Cameroon		5(1)			
15867	4-2-4-28	Cameroon		5(1)	1(1)	5(1)	4(1)	15950	4-2-11-86	Cameroon		5(1)			
15868	4-2-4-29	Cameroon		5(1)	1(1)	5(1)	4(1)	15951	4-2-11-87	Cameroon		5(1)			
15869	4-2-4-30	Cameroon		5(1)	1(1)	5(1)	4(1)	15952	4-2-11-88	Cameroon		5(1)			
15870	4-2-4-31	Cameroon		5(1)	1(1)	5(1)	4(1)	15953	4-2-11-89	Cameroon		5(1)			
15871	4-2-4-32	Cameroon		5(1)	1(1)	5(1)	4(1)	15954	4-2-11-90	Cameroon		5(1)			
15872	4-2-4-33	Cameroon		5(1)	1(1)	5(1)	4(1)	15955	4-2-11-91	Cameroon		5(1)			

IS No	Alternate accession	Source country	SP				MD				IS No	Alternate accession	Source country	SP				MD			
			R	PR	13N	13S	R	PR	13N	13S				R	PR	13N	13S	R	PR	13N	13S
15950	4-3-3-4	Cameroon	5(1)	1(1)	-	-	5(1)	5(2)	-	-	16040	4-3-25-6	Cameroon	-	5(1)	1(1)	-	5(1)	5(1)	-	-
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15952	4-3-3-6	Cameroon	5(1)	-	-	-	-	-	-	16042	4-3-26-1	Cameroon	-	4(1)	-	-	-	5(1)	5(1)	-	-
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15961	4-3-7-2	Cameroon	5(1)	1(1)	-	-	3(4)	3(4)	-	16052	4-3-27-1	Cameroon	-	5(1)	-	-	-	-	-	-	-
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15984	4-3-15-1	Cameroon	4(1)	-	-	-	-	-	-	16075	4-3-3-19	Cameroon	-	4(1)	1(1)	-	3(1)	4(2)	-	-	-
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15991	4-3-17-2	Cameroon	5(1)	2(1)	-	-	5(1)	-	-	16082	4-3-4-5	Cameroon	-	5(1)	1(1)	-	5(1)	-	-	-	-
15993	4-3-17-4	Cameroon	5(1)	1(1)	-	-	5(1)	-	-	16083	4-3-4-6	Cameroon	-	4(1)	1(1)	-	5(1)	-	-	-	-
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15995	4-3-18-1	Cameroon	5(1)	2(1)	-	-	5(2)	5(1)	-	16085	4-3-5-1	Cameroon	-	5(1)	-	-	-	-	-	-	-
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16029	4-3-24-2	Cameroon	4(1)	-	-	-	-	-	-	16118	4-3-11-7	Cameroon	-	5(1)	-	-	-	-	-	-	-
16030	4-3-24-3	Cameroon	5(1)	-	-	-	-	-	-	16119	4-3-11-8	Cameroon	-	4(1)	-	-	-	-	-	-	-
16031	4-3-24-4	Cameroon	5(1)	-	-	-	-	-	-	16											

IS No	Affiliate accession identifier	Source country	SF				SB				IS No	Affiliate accession identifier	Source country	SB				MIS	TDR			
			R	PR	DHS	SPS	DR	DR	R	PR				DHS	SPS	DR	DR			R	PR	DHS
16125	4-1-1-1	Самбоуэн	-	5(1)	-	-	-	-	-	16218	4-1-6-19	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16126	4-1-1-2	Самбоуэн	-	5(1)	5(1)	-	5(1)	4(4)	-	16219	4-1-6-20	Самбоуэн	-	5(1)	5(1)	-	-	-	-	5(1)	5(1)	
16127	4-2-1-1	Самбоуэн	-	4(1)	-	-	-	-	-	16220	4-1-6-21	Самбоуэн	-	4(1)	5(1)	-	-	-	-	5(1)	5(1)	
16128	4-2-1-4	Самбоуэн	-	5(1)	-	-	-	-	-	16221	4-1-6-22	Самбоуэн	-	4(1)	-	-	-	-	-	5(1)	5(1)	
16129	4-2-1-5	Самбоуэн	-	5(1)	5(1)	-	5(1)	5(1)	5(1)	16222	4-1-6-23	Самбоуэн	-	5(1)	4(1)	-	-	-	-	5(1)	5(1)	
16130	4-2-1-6	Самбоуэн	-	5(1)	5(1)	-	5(1)	4(2)	-	16223	4-1-6-24	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16131	4-2-1-7	Самбоуэн	-	5(1)	-	-	-	5(1)	-	16224	4-1-6-25	Самбоуэн	-	4(1)	-	-	-	-	-	5(1)	5(1)	
16132	4-2-1-10	Самбоуэн	5(1)	5(1)	5(1)	-	5(1)	-	-	16225	4-1-6-26	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16133	4-2-1-11	Самбоуэн	-	5(1)	-	-	-	-	-	16226	4-1-6-27	Самбоуэн	-	5(1)	2(1)	-	-	-	-	5(1)	5(1)	
16134	4-2-1-12	Самбоуэн	-	4(1)	-	-	-	-	-	16227	4-1-6-28	Самбоуэн	-	5(1)	5(1)	-	-	-	-	5(1)	5(1)	
16136	4-2-2-2	Самбоуэн	-	5(1)	-	-	-	-	-	16228	4-1-6-29	Самбоуэн	-	5(1)	5(1)	-	-	-	-	5(1)	5(1)	
16139	4-3-2-1	Самбоуэн	-	5(1)	4(1)	-	5(1)	-	-	16229	4-1-6-30	Самбоуэн	-	4(1)	5(1)	-	-	-	-	5(1)	5(1)	
16140	4-1-2-2	Самбоуэн	-	5(1)	2(1)	-	5(1)	4(2)	-	16230	4-1-6-1	Самбоуэн	-	5(1)	5(1)	-	-	-	-	4(1)	5(1)	
16141	4-1-2-3	Самбоуэн	-	5(2)	2(1)	-	5(1)	5(2)	-	16231	4-1-7-1-A	Самбоуэн	-	2(1)	-	-	-	-	-	4(1)	5(1)	
16142	4-1-2-4	Самбоуэн	-	2(1)	2(1)	-	5(1)	4(2)	-	16232	4-1-7-1-B	Самбоуэн	-	2(1)	-	-	-	-	-	4(1)	5(1)	
16143	4-1-2-5	Самбоуэн	-	5(1)	-	-	-	-	-	16233	4-1-7-2-A	Самбоуэн	-	4(1)	-	-	-	-	-	5(1)	5(1)	
16144	4-1-2-6	Самбоуэн	-	5(1)	5(1)	-	5(1)	5(1)	-	16234	4-1-7-2-B	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16145	4-1-2-7	Самбоуэн	-	5(1)	-	-	-	-	-	16235	4-1-7-3-A	Самбоуэн	-	5(1)	5(1)	-	-	-	-	4(1)	5(1)	
16146	4-1-3-1	Самбоуэн	-	4(1)	-	-	-	-	-	16236	4-1-7-3-B	Самбоуэн	-	4(1)	5(1)	-	-	-	-	5(1)	5(1)	
16147	4-1-3-2	Самбоуэн	5(1)	4(2)	-	-	-	-	-	16237	4-1-7-4	Самбоуэн	-	4(1)	5(1)	-	-	-	-	5(1)	5(1)	
16148	4-1-3-3	Самбоуэн	-	5(1)	2(1)	-	5(1)	-	-	16238	4-1-7-5	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16149	4-1-3-11	Самбоуэн	-	4(1)	2(1)	-	5(1)	-	-	16239	4-1-7-6	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16150	4-1-2-12	Самбоуэн	-	5(1)	4(1)	-	5(1)	-	-	16240	4-1-7-7	Самбоуэн	-	5(1)	5(1)	-	-	-	-	5(1)	5(1)	
16151	4-1-2-13	Самбоуэн	-	5(1)	2(1)	-	5(1)	-	-	16241	4-1-7-8	Самбоуэн	-	5(1)	-	-	-	-	-	5(1)	5(1)	
16152	4-1-2-14	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16242	4-1-7-9	Самбоуэн	-	5(1)	5(1)	-	-	-	-	5(1)	5(1)	
16153	4-1-3-1-A	Самбоуэн	-	5(1)	5(1)	-	5(1)	5(1)	-	16243	4-1-8-1	Самбоуэн	-	5(1)	5(1)	5(1)	5(1)	-	-	5(1)	5(1)	
16154	4-1-3-1-B	Самбоуэн	-	5(1)	-	-	-	-	-	16244	4-1-8-2-A	Самбоуэн	-	5(1)	5(1)	5(1)	5(1)	-	-	5(1)	5(1)	
16155	4-1-3-2-A	Самбоуэн	-	5(1)	2(1)	-	5(2)	5(2)	-	16247	4-1-8-2-B	Самбоуэн	-	5(1)	5(1)	5(1)	5(1)	-	-	5(1)	5(1)	
16156	4-1-3-2-B	Самбоуэн	5(1)	4(1)	-	-	-	-	-	16248	4-1-8-3-A	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16157	4-1-3-3-A	Самбоуэн	-	4(1)	2(1)	-	5(1)	-	-	16249	4-1-8-3-B	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16158	4-1-3-3-B	Самбоуэн	-	5(1)	-	-	-	-	-	16250	4-1-8-4-A	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16159	4-1-3-3-C	Самбоуэн	-	4(1)	2(1)	-	5(1)	-	-	16251	4-1-8-4-B	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16161	4-1-3-5-A	Самбоуэн	-	5(1)	5(1)	5(1)	-	-	-	16253	4-1-8-5-B	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16162	4-1-3-5-B	Самбоуэн	-	5(1)	-	-	-	-	-	16254	4-1-8-6-A	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16164	4-1-3-6-A	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16255	4-1-8-6-B	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16165	4-1-3-7	Самбоуэн	-	4(1)	2(1)	-	5(1)	-	-	16256	4-1-8-7	Самбоуэн	5(1)	4(1)	-	-	-	-	-	-	5(1)	5(1)
16167	4-1-3-9	Самбоуэн	5(1)	4(1)	2(1)	-	5(1)	5(1)	-	16257	4-1-8-8	Самбоуэн	-	4(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16168	4-1-3-10	Самбоуэн	-	5(1)	-	-	-	4(1)	-	16258	4-1-8-9	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16169	4-1-3-11	Самбоуэн	-	5(1)	-	-	-	5(2)	-	16259	4-1-8-10	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16170	4-1-3-12	Самбоуэн	-	5(1)	2(1)	-	5(1)	-	-	16260	4-1-8-11	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16171	4-1-3-13	Самбоуэн	-	5(1)	-	-	-	-	-	16261	4-1-8-12	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16172	4-1-3-14	Самбоуэн	-	5(1)	2(1)	-	5(1)	4(2)	-	16262	4-1-8-13	Самбоуэн	-	5(1)	2(1)	-	-	-	-	-	5(1)	5(1)
16173	4-1-3-15	Самбоуэн	-	4(1)	2(1)	-	5(1)	4(2)	-	16263	4-1-8-14	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16174	4-1-3-16	Самбоуэн	-	5(1)	-	-	-	-	-	16265	4-1-8-16	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16175	4-1-3-17	Самбоуэн	-	4(1)	-	-	-	-	-	16266	4-1-8-17	Самбоуэн	-	4(1)	-	-	-	-	-	-	5(1)	5(1)
16176	4-1-4-1	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16267	4-1-9-1	Самбоуэн	-	5(1)	4(1)	-	-	-	-	-	5(1)	5(1)
16177	4-1-4-2	Самбоуэн	-	4(1)	-	-	-	-	-	16268	4-1-9-2	Самбоуэн	-	2(1)	-	-	-	-	-	-	5(1)	5(1)
16178	4-1-4-3	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16269	4-1-9-3	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16179	4-1-4-4	Самбоуэн	-	5(1)	2(1)	-	5(1)	-	-	16270	4-1-9-4	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16180	4-1-4-5	Самбоуэн	-	5(1)	-	-	-	5(1)	-	16271	4-1-9-5	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16181	4-1-4-6	Самбоуэн	-	5(1)	-	-	-	5(2)	-	16272	4-1-9-6	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16182	4-1-4-7	Самбоуэн	-	5(1)	-	-	-	-	-	16273	4-1-9-7	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16183	4-1-4-8	Самбоуэн	-	4(1)	2(1)	-	5(1)	5(1)	-	16274	4-1-9-8	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16184	4-1-4-9	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16275	4-1-10-1-A	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16185	4-1-4-10	Самбоуэн	-	5(1)	2(1)	-	5(1)	4(2)	-	16277	4-1-10-2-A	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16186	4-1-4-11	Самбоуэн	-	5(1)	-	-	-	-	-	16278	4-1-10-2-B	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16187	4-1-5-1	Самбоуэн	-	5(2)	5(1)	-	5(1)	5(1)	-	16280	4-1-10-3-B	Самбоуэн	-	5(1)	5(1)	2(1)	-	-	-	-	5(1)	5(1)
16188	4-1-5-2	Самбоуэн	-	5(1)	-	-	-	5(1)	-	16281	4-1-10-4-A	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16190	4-1-5-4	Самбоуэн	-	5(2)	5(1)	-	5(1)	5(1)	-	16284	4-1-10-5-B	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16192	4-1-5-6	Самбоуэн	-	5(2)	5(1)	-	5(2)	5(2)	-	16285	4-1-10-6	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16193	4-1-5-7	Самбоуэн	-	5(1)	-	-	-	-	-	16286	4-1-10-7	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16194	4-1-6-1-A	Самбоуэн	-	5(1)	5(1)	-	5(1)	-	-	16287	4-1-10-8	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16195	4-1-6-1-B	Самбоуэн	-	5(2)	-	-	-	-	-	16289	4-1-10-10	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16196	4-1-6-2-A	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16290	4-1-10-11	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16197	4-1-6-2-B	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16292	4-2-1-1	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16198	4-1-6-3-A	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16293	4-2-1-2	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16199	4-1-6-3-B	Самбоуэн	-	5(1)	2(1)	-	5(1)	5(1)	-	16294	4-2-1-3	Самбоуэн	-	5(1)	5(1)	-	-	-	-	-	5(1)	5(1)
16200	4-1-6-4-B	Самбоуэн	-	5(1)	-	-	-	-	-	16296	4-2-1-5	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16201	4-1-6-5-A	Самбоуэн	-	5(1)	5(1)	-	5(1)	5(1)	-	16297	4-2-1-6	Самбоуэн	-	5(1)	-	-	-	-	-	-	5(1)	5(1)
16202	4-1-6-5-B	Самбоуэн	-	5(1)	-	-	-	-	-	16298	4-2-1-7	Самбоуэн	-	4(1)	-	-	-	-	-	-	5(1)	5(1)
16204	4-1-6-6-A	Самбоуэн																				

IS No	Alternate accession identifier	Source country	SI					IS No	Alternate accession identifier	Source country	SI				
			R	PR	SH	MS	IPS				DR	W	PR	SH	MS
16481	4-3-2-1	Cameroon		4(1)				16388	4-4-3-7	Cameroon		2(1)			
16485	4-3-2-2	Cameroon		3(1)				16389	4-2-2-7	Cameroon		3(1)			
16486	Unkown	Cameroon		2(1)				16391	4-4-8-2	Cameroon	3(1)	3(1)			
16487	4-3-2-4	Cameroon		5(1)				16392	4-6-9-1	Cameroon		5(1)			
16488	4-3-1-1	Cameroon		5(1)				16393	4-6-10-1	Cameroon		5(1)			
16489	4-3-3-2	Cameroon		4(1)				16395	4-4-10-3	Cameroon		5(1)			
16490	4-3-3-3	Cameroon		2(1)				16398	4-4-11-2	Cameroon		3(1)			
16491	4-3-3-4	Cameroon		5(1)				16399	4-4-11-3	Cameroon		4(3)	1(1)	1(1)	
16493	4-3-1-6	Cameroon		3(1)				16400	4-4-12-1	Cameroon		5(1)			
16494	4-3-3-7	Cameroon		5(1)	4(1)	4(2)	5(2)	16401	4-4-12-2	Cameroon		5(1)			
16495	4-3-1-8	Cameroon		5(1)				16402	4-4-13-1	Cameroon		5(2)			
16496	4-3-1-9	Cameroon		2(1)				16404	4-4-13-2	Cameroon		5(1)			
16498	4-3-3-11	Cameroon		4(1)				16405	4-4-13-4	Cameroon		4(1)	1(1)	1(1)	
16499	4-3-3-12	Cameroon		5(1)				16406	4-4-14-2	Cameroon		4(1)			
16500	4-3-3-14	Cameroon		3(1)				16407	4-3-15-1	Cameroon		4(1)			
16501	4-3-3-15	Cameroon		5(2)				16408	4-4-15-1	Cameroon		4(1)		5(1)	5(2)
16502	4-3-3-16	Cameroon		5(1)				16411	4-3-16-2	Cameroon	4(2)	5(2)			
16503	4-3-3-17	Cameroon		5(1)				16412	4-4-16-1	Cameroon		5(2)			
16504	4-3-1-18	Cameroon		4(1)				16413	4-4-17-1	Cameroon		5(3)			
16505	4-4-1-19	Cameroon		5(1)				16414	4-4-17-2	Cameroon	5(2)	5(2)			
16508	4-1-1-1	Cameroon			5(1)			16415	4-4-17-3	Cameroon			3(1)	5(1)	
16510	3-1-4-3	Cameroon		9(1)				16416	4-4-17-4	Cameroon		5(2)			
16511	4-3-4-4	Cameroon		5(1)				16417	4-4-17-5	Cameroon		5(2)			
16513	2-3-4-6	Cameroon		4(1)				16418	4-4-17-6	Cameroon		5(1)			
16514	4-3-4-7	Cameroon		5(1)				16419	4-4-17-7	Cameroon		5(1)			
16516	4-3-5-2	Cameroon		4(1)				16420	4-4-18-1	Cameroon		4(1)			
16517	4-3-4-3	Cameroon		3(2)				16421	4-4-18-2	Cameroon		5(1)			
16519	4-3-5-5	Cameroon		2(2)				16422	4-4-18-3	Cameroon	5(1)	5(1)			5(2)
16520	4-3-5-6	Cameroon		3(2)				16423	4-4-18-4	Cameroon		5(1)			
16521	4-3-5-7	Cameroon		5(1)				16424	4-4-18-5	Cameroon		5(1)			
16523	4-3-6-3	Cameroon		5(1)				16425	4-4-18-6	Cameroon		5(1)	1(1)	5(1)	
16525	4-4-7-2	Cameroon		5(1)				16426	4-4-19-1	Cameroon		5(2)			
16526	4-3-7-2	Cameroon		5(1)				16429	4-4-20-2	Cameroon		5(1)			
16527	4-4-7-3	Cameroon			5(1)			16431	4-4-20-3	Cameroon		4(1)			
16528	4-1-7-4	Cameroon	3(1)	5(2)				16432	4-4-20-4	Cameroon		5(1)	1(1)	1(1)	
16529	4-4-8-2	Cameroon		5(1)				16433	4-4-20-5	Cameroon		5(1)			
16531	4-3-8-3	Cameroon		4(1)				16434	4-4-21-1	Cameroon		5(1)			
16532	4-3-8-4	Cameroon		4(1)				16435	4-4-21-2	Cameroon		5(1)			
16534	4-3-8-5	Cameroon		4(1)				16436	4-4-21-3	Cameroon		5(1)			
16544	4-3-8-6	Cameroon	4(2)	4(2)				16437	4-4-21-4	Cameroon		5(1)			
16545	4-3-9-1	Cameroon		4(1)				16438	4-4-21-5	Cameroon		5(1)			
16546	4-3-9-2	Cameroon		5(1)				16439	4-4-21-6	Cameroon		5(1)			
16547	4-3-9-3	Cameroon		4(1)				16440	4-4-21-7	Cameroon	4(2)	5(1)			
16548	4-3-10-3	Cameroon		5(1)				16443	4-4-21-8	Cameroon		5(1)			
16549	4-3-11-1	Cameroon		4(1)				16442	4-4-21-9	Cameroon		5(1)			
16549	4-3-11-2	Cameroon		5(1)				16444	4-4-21-10	Cameroon		5(1)			
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16549	4-3-11-4	Cameroon		5(1)				16448	4-4-21-13	Cameroon		5(1)	5(1)		
16549	4-3-11-5	Cameroon		5(1)				16449	4-4-21-14	Cameroon		5(1)	1(1)	1(1)	
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16549	4-3-11-9	Cameroon		5(1)				16450	4-4-21-18	Cameroon		5(1)			
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16549	4-3-11-24	Cameroon		5(1)				16465	4-4-21-33	Cameroon		5(1)			
16549	4-3-11-25	Cameroon		5(1)				16466	4-4-21-34	Cameroon		5(1)			
16549	4-3-11-26	Cameroon		5(1)				16467	4-4-21-35	Cameroon		5(1)			
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16549	4-3-11-28	Cameroon		5(1)				16469	4-4-21-37	Cameroon		5(1)			
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16549	4-3-11-32	Cameroon		5(1)				16473	4-4-21-41	Cameroon		5(1)			
16549	4-3-11-33	Cameroon		5(1)				16474	4-4-21-42	Cameroon		5(1)			
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16549	4-3-11-49	Cameroon		5(1)				16490	4-4-21-58	Cameroon		5(1)			
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16549	4-3-11-57	Cameroon		5(1)				16498	4-4-21-66	Cameroon		5(1)			
16549	4-3-11-58	Cameroon		5(1)				16499	4-4-21-67	Cameroon		5(1)			
16549	4-3-11-59	Cameroon		5(1)				16500	4-4-21-68	Cameroon		5(1)			
16549	4-3-11-60	Cameroon		5(1)				16501	4-4-21-69	Cameroon		5(1)			
16549	4-3-11-61	Cameroon		5(1)				16502	4-4-21-70	Cameroon		5(1)			
16549	4-3-11-62	Cameroon		5(1)				16503	4-4-21-71	Cameroon		5(1)			
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IS No	Alternative accession	Source country	SF					MD	IIR	IS No	Alternative accession	Source country	SF				
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17057	Yar dawara	Nigeria							17310	Unknonen	Ethiopia	5(1)		5(1)			
17058	Jar dawara	Nigeria	5(1)		5(1)				17345	Unknonen	Lithuania	5(1)		5(1)			
17060	Yar unnon	Nigeria	5(1)		5(1)		5(2)		17347	Unknonen	Ethiopia	5(1)		5(1)			
17067	Flotaka	Nigeria	5(1)		5(2)				17348	Unknonen	Ethiopia	5(2)		5(1)			
17071	Ciqwasa	Nigeria	5(1)		5(1)				17349	Unknonen	Ethiopia	5(1)		5(1)			
17072	Y'akin da'iki	Nigeria	5(1)						17350	Unknonen	Ethiopia	5(2)		5(1)			
17075	Y'ama'fara	Nigeria	5(1)		5(1)				17355	Unknonen	Ethiopia	5(1)		5(1)			
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17077	Y'ama'	Nigeria	5(1)		5(1)				17360	Unknonen	Ethiopia	5(1)		5(1)			
17078	Y'ama'loogoo	Nigeria	5(1)		5(1)		5(2)		17372	Unknonen	Ethiopia	5(1)		5(1)			
17080	Naka yim'loora	Nigeria	4(1)		5(1)				17374	Unknonen	Ethiopia	5(1)		5(1)			
17082	Baafusa	Nigeria	5(1)		5(1)				17375	Unknonen	Ethiopia	5(1)		5(1)			
17087	Yar god'asu	Nigeria	5(1)		5(1)				17394	Unknonen	Ethiopia	5(1)		5(1)			
17089	Ruba	Nigeria	5(1)		5(1)				17400	Unknonen	Ethiopia	5(1)		5(1)			
17092	Fara'ama	Nigeria	5(1)		5(1)				17401	Unknonen	Ethiopia	5(1)		5(1)			
17094	Wargu	Nigeria	5(1)		5(1)				17415	Unknonen	Ethiopia	5(1)		5(2)			
17098	Nunoba	Nigeria	5(1)		5(1)				17416	Unknonen	Ethiopia	5(1)		5(1)			
17099	Belko	Nigeria	5(1)		5(1)				17427	Unknonen	Ethiopia	5(1)		5(2)			
17101	Tara'fara	Nigeria	5(1)		5(1)				17428	Unknonen	Ethiopia	5(1)					
17102	Dadon	Nigeria	5(1)		5(1)				17430	Unknonen	Ethiopia	5(1)		5(1)			
17105	Dawa'zabo	Nigeria	5(1)		5(1)		5(2)		17435	Unknonen	Ethiopia	5(1)		5(1)			
17110	Mor	Nigeria	5(1)		5(1)				17436	Unknonen	Ethiopia	4(1)		5(1)			
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17120	Ro'ok' lapayig	Nigeria	5(1)		5(1)				17461	Unknonen	Ethiopia	5(1)		5(1)		5(1)	
17124	Mani	Nigeria	5(1)		5(1)				17462	Unknonen	Lithuania			5(1)			
17126	Gabo	Nigeria	5(1)		5(1)				17463	Unknonen	Ethiopia			5(1)		5(1)	
17127	Chaku	Nigeria	5(1)		5(1)				17464	Unknonen	Ethiopia			4(1)			
17132	Mtu'ban	Nigeria	5(1)		5(1)				17465	Unknonen	Ethiopia			5(1)			
17133	Fara'fara	Nigeria	5(1)		5(1)				17467	Unknonen	Ethiopia			5(1)		5(1)	
17135	W'ile'benku	Nigeria	5(1)		5(1)				17468	Unknonen	Ethiopia			5(1)		5(1)	
17137	Buruko	Nigeria	5(1)		5(1)		5(2)		17469	Unknonen	Ethiopia			5(1)			
17148	Nyan'kambui	Nigeria	5(1)		5(1)		5(2)		17471	Unknonen	Ethiopia			5(1)			
17149	Borokun	Nigeria	5(1)		5(1)		5(2)		17472	Unknonen	Ethiopia			5(1)		5(1)	
17149	Syaka'bitano	Nigeria	5(1)		5(1)		5(1)	4(1)	17472	Unknonen	Ethiopia			4(1)		5(1)	
17149	Obanokwe	Nigeria	5(1)		5(1)				17473	ET 2251	Ethiopia			5(1)			
17150	Jar'fara	Nigeria	5(1)		5(1)				17474	Unknonen	Ethiopia			5(2)		5(1)	
17151	Ak'ak'	Nigeria	5(1)		5(2)				17480	Unknonen	Ethiopia			5(2)			
17155	Haidis	Uganda	5(1)		5(1)				17481	Unknonen	Ethiopia			5(1)			
17157	Kamirid	Uganda	5(1)		5(2)				17482	Unknonen	Ethiopia			5(1)		5(1)	
17159	I'na	Uganda	5(1)		5(2)		5(1)		17483	Unknonen	Ethiopia			5(1)			
17170	Nimra	Nigeria	5(1)		5(1)		5(1)		17484	Unknonen	Ethiopia			5(1)			
17171	S'adu	Nigeria	5(1)		5(1)		5(1)		17485	Unknonen	Ethiopia			5(1)		5(1)	
17173	Y'ama'	Nigeria	5(1)		5(1)		5(1)		17486	Unknonen	Ethiopia			5(2)		5(1)	
17175	Y'ama'	Nigeria	5(1)		5(1)		5(1)		17488	Unknonen	Ethiopia			5(1)		5(1)	
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17178	Nyabari	Nigeria	5(1)		5(2)		5(1)		17498	Unknonen	Ethiopia			5(1)		5(1)	
17180	Methen	Nigeria	5(1)		5(2)		5(2)		17501	Unknonen	Ethiopia			5(1)		5(1)	
17185	Kela'garam	Nigeria	5(1)		5(1)		5(2)		17503	Unknonen	Ethiopia			5(1)			
17186	M'ca'	USA	5(1)		5(2)				17504	Unknonen	Ethiopia			5(1)			
17188	Sikwe	USA	5(1)		5(1)				17506	Unknonen	Ethiopia			5(1)		5(1)	
17189	Koogo 2	USA	5(1)		5(1)				17507	Unknonen	Ethiopia			5(1)		5(2)	
17190	Mambaji	USA	5(1)		5(1)				17509	Unknonen	Ethiopia			5(1)		5(1)	
17191	Kawarodo	USA	5(1)		5(1)				17512	Unknonen	Ethiopia			5(1)			
17194	Wira	Nigeria	5(1)		5(1)				17513	Unknonen	Ethiopia			5(1)		5(1)	
17195	Y'ama'	Nigeria	5(1)		5(1)				17514	Unknonen	Ethiopia			5(1)		5(1)	
17196	E'na'warde	Nigeria	5(1)		5(1)				17515	Unknonen	Ethiopia			5(1)		5(1)	
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IS No	Alienated accession identifier	Source country	SP					IS No	Alienated accession identifier	Source country	SI				
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17565	3822	Nigeria	5(1)	-	-	-	-	17639	Van-waag	Ghana	5(1)	-	-	-	-
17566	3823	Nigeria	5(1)	-	-	-	-	17651	Wang 2	Ghana	5(1)	5(1)	-	-	-
17567	3824	Nigeria	5(1)	-	-	-	-	17652	Wang 3	Ghana	5(1)	-	-	-	-
17568	3825	Nigeria	5(1)	-	-	-	-	17653	AY15	Ghana	5(1)	-	-	-	-
17569	3831	Nigeria	5(1)	-	-	-	-	17654	Beddingling	Ghana	5(1)	-	-	-	-
17570	3832	Nigeria	5(1)	-	-	-	-	17655	GDC 1	Ghana	5(1)	-	-	-	-
17571	3834	Nigeria	5(1)	-	-	-	-	17656	GDC 2	Ghana	5(1)	-	-	-	-
17572	3835	Nigeria	5(1)	-	-	-	-	17657	Kapilaga	Ghana	5(1)	-	-	-	-
17573	3836	Nigeria	5(1)	-	-	-	-	17658	Van-angudafu	Ghana	5(1)	-	-	-	-
17574	3837	Nigeria	5(1)	-	-	-	-	17659	Unkraven	Ghana	5(1)	-	-	0(1)	4(1)
17575	3838	Nigeria	5(1)	-	-	-	-	17660	Yellow jowar	India	5(1)	-	-	-	-
17576	3839	Nigeria	5(1)	-	-	-	-	17661	Yellow jowar	India	4(1)	-	3(1)	-	5(1)
17577	3840	Nigeria	5(1)	-	-	-	-	17662	Yellow jowar	India	4(1)	3(1)	1(1)	-	-
17578	3848	Nigeria	4(1)	5(1)	-	-	-	17663	Yellow jowar	India	2(1)	1(1)	3(1)	1(1)	-
17579	3849	Nigeria	4(1)	5(1)	-	-	-	17664	Yellow jowar	India	5(1)	5(1)	-	-	-
17580	3857	Nigeria	2(1)	5(1)	-	-	-	17665	Yellow jowar	India	5(1)	4(1)	5(1)	-	-
17581	3877-1	Nigeria	2(1)	5(1)	-	-	-	17666	Yellow jowar	India	5(1)	5(1)	-	-	-
17582	3877-2	Nigeria	2(1)	5(1)	-	-	-	17667	Yellow jowar	India	2(1)	5(1)	-	-	-
17583	3787	Nigeria	2(1)	-	-	-	5(1)	17668	Yellow jowar	India	4(1)	2(1)	1(1)	-	-
17584	3788	Nigeria	2(1)	1(1)	-	-	5(1)	17669	Yellow jowar	India	3(1)	1(1)	4(1)	-	-
17585	Bunda & Sada	Yemen	2(1)	-	4(1)	-	-	17670	Yellow jowar	India	4(1)	2(1)	-	-	-
17586	Nas-asch	Yemen	2(1)	3(1)	-	-	-	17671	Yellow jowar	India	5(1)	4(1)	-	-	-
17587	Abdohace	Yemen	2(1)	3(1)	1(1)	-	1(1)	17672	Yellow jowar	India	4(1)	1(1)	-	-	-
17589	Siobabo	Yemen	1(1)	5(1)	1(1)	-	1(1)	17673	Yellow jowar	India	4(1)	-	-	-	-
17590	Bandi sargari	Yemen	2(1)	-	-	-	-	17674	Yellow jowar	India	4(1)	4(1)	1(1)	-	-
17591	Gurra lumra	Yemen	2(1)	-	-	-	-	17675	K.F.P 1	India	4(1)	4(1)	-	-	-
17592	Thawal shomar	Yemen	2(1)	-	-	-	-	17676	K.F.P 2	India	5(1)	-	-	-	-
17593	Gogoyechi	Yemen	5(1)	-	-	-	-	17677	Yellow jowar	India	5(1)	-	-	-	-
17594	Ludhruan	Yemen	5(1)	-	-	-	-	17678	Yellow jowar	India	4(1)	-	-	-	-
17595	Hadra	Yemen	5(1)	-	5(1)	-	-	17679	Yellow jowar	India	5(1)	4(1)	-	-	-
17596	Banda rubinet	Yemen	5(1)	-	-	-	-	17680	K.F.P 21	India	5(1)	-	-	-	-
17597	Arpa 124	Yemen	5(1)	-	-	-	5(1)	17681	Light yellow jowar	India	4(1)	4(1)	-	-	-
17598	Sinnai 1	Yemen	5(1)	-	3(1)	-	5(1)	17682	K.F.P 23	India	5(1)	-	-	-	-
17599	Sinnai 2	Yemen	5(1)	-	3(1)	-	5(1)	17683	K.F.P 24	India	4(1)	4(1)	-	-	-
17600	Sinnai 3	Yemen	5(1)	-	3(1)	-	5(1)	17687	Red jowar	India	4(1)	5(1)	1(1)	1(1)	5(1)
17601	Dindho	Yemen	5(1)	5(1)	1(1)	-	5(1)	17688	White jowar	India	4(1)	-	-	-	-
17602	Yidlo-rahmeti	Yemen	5(1)	-	-	-	-	17689	White jowar	India	5(1)	-	-	-	-
17603	Dindho	Yemen	5(1)	5(1)	-	-	-	17690	White jowar	India	5(1)	-	-	-	-
17604	Sadan	Yemen	5(1)	-	-	-	-	17691	White jowar	India	5(1)	-	-	-	-
17605	Amnata	Yemen	5(1)	4(1)	4(1)	-	5(1)	17692	White jowar	India	5(1)	-	-	-	-
17606	Sigad shomar	Yemen	5(1)	-	-	-	-	17693	White jowar	India	5(1)	-	-	-	-
17607	Thimo	Yemen	2(1)	-	5(1)	-	-	17694	White jowar	India	5(1)	-	-	-	-
17608	Ladma	Yemen	5(1)	-	-	4(1)	5(1)	17695	White jowar	India	5(1)	-	-	-	-
17609	Ami	Yemen	5(1)	5(1)	-	-	-	17696	White jowar	India	5(1)	-	-	-	-
17610	Maj-elag	Yemen	5(1)	5(1)	1(1)	-	1(1)	17697	White jowar	India	4(1)	-	5(1)	-	-
17611	Maryam	Yemen	5(1)	-	-	-	-	17698	White jowar	India	5(1)	-	-	-	-
17612	W-x-x	Yemen	5(1)	-	-	5(1)	5(1)	17699	White jowar	India	5(1)	-	-	-	-
17613	W-aga-dimaga	Yemen	5(1)	-	-	5(1)	4(1)	17700	White jowar	India	5(1)	-	-	-	-
17614	Kaga-jag	Yemen	5(1)	5(1)	-	-	5(1)	17701	White jowar	India	5(1)	-	-	-	-
17615	Belahare	Yemen	5(1)	-	-	-	-	17702	White jowar	India	5(1)	-	-	-	-
17616	Wagat	Yemen	5(1)	-	-	-	-	17703	White jowar	India	5(1)	-	-	-	-
17618	Dolla-inge	Yemen	5(1)	1(1)	5(1)	-	5(1)	17704	White jowar	India	5(1)	-	-	-	-
17619	Yachuan	Yemen	5(1)	-	-	-	-	17705	White jowar	India	5(1)	-	-	-	-
17620	Zemama bicapula	Yemen	5(1)	-	5(1)	-	5(1)	17706	White jowar	India	5(1)	-	-	-	-
17621	Kare	Yemen	5(1)	-	-	-	-	17707	White jowar	India	5(1)	-	-	-	-
17622	Turakrefe	Yemen	5(1)	-	-	-	-	17709	White jowar	India	5(1)	-	-	-	-
17623	Zemama bicapula	Yemen	2(1)	-	4(1)	-	5(1)	17710	White jowar	India	5(1)	-	-	-	-
17624	Kabaka	Yemen	5(1)	-	-	-	5(1)	17711	White jowar	India	5(1)	-	-	-	-
17625	Sorag	Yemen	5(1)	-	4(1)	-	5(1)	17712	White jowar	India	5(1)	-	-	-	-
17626	Som-dimaga	Yemen	5(1)	-	5(1)	-	5(1)	17713	White jowar	India	5(1)	-	-	-	-
17627	Bel-aga	Yemen	5(1)	-	-	-	-	17714	White jowar	India	5(1)	-	-	-	-
17628	Itate	Yemen	5(1)	-	-	-	-	17715	White jowar	India	5(1)	-	-	-	-
17629	Kapilaga	Yemen	5(1)	-	-	-	-	17716	White jowar	India	5(1)	-	-	-	-
17630	Nyaga	Yemen	5(1)	-	-	-	-	17717	White jowar	India	5(1)	-	-	-	-
17631	Vat-anga-tifine	Ghana	5(1)	-	-	-	-	17718	Kowala jowar	India	5(1)	-	-	-	-
17633	Napalabin	Ghana	5(1)	1(1)	1(1)	1(1)	5(1)	17719	Kowala jowar	India	5(1)	-	-	-	-
17634	Bini jowar	Ghana	5(1)	-	1(1)	-	5(1)	17720	Kowala jowar	India	5(1)	-	-	-	-
17634	Tarik	Ghana	4(1)	-	5(1)	-	5(1)	17721	White jowar	India	5(1)	-	-	-	-
17635	Kapila	Ghana	5(1)	-	-	-	-	17722	White jowar	India	5(1)	-	3(1)	-	-
17637	Murman 1	Ghana	5(1)	-	-	-	-	17723	White jowar	India	5(1)	-	-	-	-
17638	Murman 2	Ghana	5(1)	-	-	-	-	17724	White jowar	India	5(1)	-	-	-	-
17639	Murman 3	Ghana	5(1)	-	-	-	-	17725	White jowar	India	5(1)	-	-	-	-
17640	Murman 4	Ghana	5(1)	-	-	-	-	17726	White jowar	India	5(1)	-	-	-	-
17641	Murman 5	Ghana	5(1)	-	-	-	-	17727	White jowar	India	5(1)	-	-	-	-
17642	Murman 6	Ghana	5(1)	-	-	-	-	17728	White jowar	India	5(1)	-	-	-	-
17643	Murman 7	Ghana	5(1)	-	-	-	-	17729	White jowar	India	5(1)	-	-	-	-
17644	Murman 8	Ghana	5(1)	-	-	-	-	17730	White jowar	India	5(1)	-	-	-	-
17645	Murman 9	Ghana	5(1)	-	-	-	-	17731	White jowar	India	5(1)	-	-	-	-
17646	Murman 10	Ghana	5(1)	-	-	-	-	17732	White jowar	India	5(1)	-	-	-	-
17647	Murman 11	Ghana	5(1)	-	-	-	-	17733	White jowar	India	5(1)	-	-	-	-
17648	Murman 12	Ghana	5(1)	-	-	-	-	17734	White jowar	India	5(1)	-	-	-	-
17649	Murman 13	Ghana	5(1)	-	-	-	-	17735	White jowar	India	5(1)	-	-	-	-
17650	Murman 14	Ghana	5(1)	-	-	-	-	17736	White jowar	India	5(1)	-	-	-	-
17651	Murman 15	Ghana	5(1)	-	-	-	-	17737	White jowar	India	5(1)	-	-	-	-
17652	Murman 16	Ghana	5(1)	-	-	-	-	17738	White jowar	India	5(1)	-	-	-	-
17653	Murman 17	Ghana	5(1)	-	-	-	-	17739	White jowar	India	5(1)	-	-	-	-
17654	Murman 18	Ghana	5(1)	-	-	-	-	17740	White jowar	India	5(1)	-	-	-	-
17655	Murman 19	Ghana	5(1)	-	-	-	-	17741	White jowar	India	5(1)	-	-	-	-
17656	Murman 20	Ghana	5(1)	-	-	-	-	17742	White jowar	India	5(1)	-	-	-	-
17657	Murman 21	Ghana	5(1)	-	-	-	-	17743	White jowar	India	5(1)	-	-	-	-
17658	Murman 22	Ghana	5(1)	-	-	-	-	17744	White jowar	India	5(1)	-	-	-	-
17659	Murman 23	Ghana	5(1)	-	-	-	-	17745	White jowar	India	5(1)	-	-	-	-
17660	Murman 24	Ghana	5(1)	-	-	-	-	17746	White jowar	India	5(1)	-	-	-	-
17661	Murman 25	Ghana	5(1)	-	-	-	-	17747	White jowar	India	5(1)	-	-	-	-
17662	Murman 26	Ghana	5(1)	-	-	-	-	17748	White jowar	India	5(1)	-	-	-	-
17663	Murman 27	Ghana	5(1)	-	-	-	-	17749	White jowar	India	5(1)	-	-	-	-
17664	Murman 28	Ghana	5(1)	-	-	-	-	17750	White jowar	India	5(1)	-	-	-	-
17665	Murman 29	Ghana	5(1)	-	-	-	-	17751	White jowar	India	5(1)	-	-	-	-
17666	Murman 30	Ghana	5(1)	-	-	-	-	17752	White jowar	India	5(1)	-	-	-	-
17667	Murman 31	Ghana	5(1)	-	-	-	-	17753	White jowar	India	5(1)	-	-	-	-
17668	Murman 32	Ghana	5(1)	-	-	-	-	17754	White jowar	India	5(1)	-	-	-	-
17669	Murman 33	Ghana	5(1)	-	-	-	-	17755	White jowar	India	5(1)	-	-	-	-
17670	Murman 34	Ghana	5(1)	-	-	-	-	17756	White jowar	India	5(1)	-	-	-	-
17671	Murman 35	Ghana	5(1)	-	-	-	-	17757	White jowar	India	5(1)	-	-	-	-
17672	Murman 36	Ghana	5(1)	-	-	-	-	17758	White jowar	India	5(1)	-	-	-	-
17673	Murman 37	Ghana	5(1)	-	-	-	-	17759	White jowar	India	5(1)	-	-	-	-
17674	Murman 38	Ghana	5(1)	-	-	-	-								

IR No	Alternative accession identifier	Source country	Source country				IR No	Alternative accession identifier	Source country	Source country				IR No	Alternative accession identifier	Source country
			R	PR	LMS	FS				DR	DR	R	PR			
10067	NSS 47	Lebanon	3(1)	-	-	-	10349	NSS 277	Lebanon	3(1)	4(1)	3(2)	-	40(1)	1(1)	
10068	NSS 48	Lebanon	3(1)	-	-	-	10350	NSS 284	Lebanon	3(1)	3(1)	-	-	5(2)	-	
10069	NSS 50	Lebanon	3(2)	3(1)	-	-	10351	NSS 293	Lebanon	3(2)	-	3(1)	-	3(2)	-	
10070	NSS 52	Lebanon	3(1)	4(1)	-	-	10352	NSS 294	Lebanon	3(1)	-	-	-	3(2)	-	
10071	NSS 74	Lebanon	3(1)	-	3(1)	-	10353	NSS 298	Lebanon	3(1)	4(2)	3(1)	-	4(2)	4(2)	
10072	NSS 76	Lebanon	2(1)	4(1)	3(1)	-	10354	NSS 299	Lebanon	3(2)	3(1)	3(1)	-	3(1)	4(2)	
10073	NSS 77	Lebanon	2(1)	3(2)	3(1)	-	10355	NSS 300	Lebanon	3(2)	3(1)	3(1)	-	4(2)	3(2)	
10074	NSS 78	Lebanon	2(1)	3(2)	3(1)	-	10356	NSS 305	Lebanon	3(2)	-	-	-	3(2)	-	
10075	NSS 82	Lebanon	2(1)	3(2)	3(1)	-	10357	NSS 306	Lebanon	3(2)	-	-	-	3(2)	-	
10076	NSS 84	Lebanon	3(1)	-	3(1)	-	10358	NSS 307	Lebanon	2(1)	4(1)	3(1)	-	3(2)	-	
10077	NSS 80	Lebanon	3(1)	-	3(1)	-	10359	NSS 409	Lebanon	3(1)	4(1)	-	-	3(2)	-	
10078	With wood resistant	Lebanon	3(1)	-	-	-	10360	NSS 410	Lebanon	3(1)	-	3(1)	-	3(2)	-	
10079	NSS 91	Lebanon	3(2)	4(1)	3(2)	-	10361	NSS 311	Lebanon	3(1)	3(1)	-	-	3(2)	-	
10080	NSS 99	Lebanon	3(2)	3(2)	3(2)	-	10362	NSS 412	Lebanon	3(1)	3(1)	-	-	3(2)	-	
10081	NSS 101	Lebanon	3(1)	-	3(1)	-	10363	NSS 313	Lebanon	3(1)	4(1)	-	-	3(2)	-	
10082	NSS 107	Lebanon	3(1)	-	3(1)	-	10364	NSS 314	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10083	NSS 108	Lebanon	3(1)	-	-	-	10365	NSS 315	Lebanon	2(1)	4(1)	3(1)	-	3(1)	3(1)	
10084	NSS 110	Lebanon	3(1)	-	-	-	10366	NSS 316	Lebanon	2(1)	4(1)	3(1)	-	3(1)	-	
10085	NSS 112	Lebanon	3(1)	-	-	-	10367	NSS 317	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10086	NSS 114	Lebanon	3(1)	-	3(1)	-	10368	NSS 318	Lebanon	3(1)	-	-	-	3(2)	-	
10087	NSS 115	Lebanon	2(1)	4(1)	3(1)	-	10369	NSS 320	Lebanon	3(1)	-	-	-	3(2)	-	
10088	NSS 116	Lebanon	1(1)	3(1)	3(1)	-	10370	NSS 321	Lebanon	3(2)	-	-	-	3(2)	-	
10089	NSS 117	Lebanon	2(1)	3(1)	-	-	10371	NSS 326	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10090	NSS 118	Lebanon	3(1)	3(1)	3(1)	-	10372	NSS 427	Lebanon	3(1)	-	-	-	3(2)	-	
10091	NSS 123	Lebanon	1(1)	3(2)	3(1)	-	10373	NSS 415	Lebanon	3(1)	-	3(1)	-	3(2)	-	
10092	NSS 124	Lebanon	2(1)	3(2)	-	-	10374	NSS 330	Lebanon	3(1)	-	-	-	3(2)	-	
10093	NSS 125	Lebanon	2(1)	3(2)	3(2)	-	10375	NSS 337	Lebanon	3(1)	2(1)	4(1)	-	3(1)	3(1)	
10094	NSS 130	Lebanon	2(1)	4(1)	3(1)	-	10376	NSS 440	Lebanon	3(1)	-	-	-	3(2)	-	
10095	NSS 136	Lebanon	2(1)	-	-	-	10377	NSS 451	Lebanon	2(1)	4(1)	-	-	3(1)	-	
10096	NSS 138	Lebanon	3(2)	-	-	-	10378	NSS 355	Lebanon	3(1)	-	3(2)	-	3(1)	-	
10097	NSS 141	Lebanon	3(2)	-	-	-	10379	NSS 358	Lebanon	3(1)	-	-	-	3(2)	-	
10098	NSS 146	Lebanon	3(1)	-	3(1)	-	10380	NSS 362	Lebanon	3(1)	-	-	-	3(2)	-	
10099	NSS 147	Lebanon	3(1)	-	-	-	10381	NSS 363	Lebanon	2(1)	4(1)	3(1)	-	3(2)	-	
10100	NSS 148	Lebanon	2(1)	4(2)	-	-	10382	NSS 409	Lebanon	2(1)	3(1)	-	-	3(1)	-	
10101	NSS 149	Lebanon	3(1)	-	3(1)	-	10383	NSS 160	Lebanon	3(1)	-	3(1)	-	4(4)	-	
10102	NSS 150	Lebanon	3(1)	-	3(1)	-	10384	NSS 369	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10103	NSS 151	Lebanon	3(1)	-	3(1)	-	10385	NSS 403	Lebanon	3(1)	-	-	-	3(2)	-	
10104	NSS 152	Lebanon	3(1)	-	3(1)	-	10386	NSS 465	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10105	NSS 153	Lebanon	3(1)	-	3(1)	-	10387	NSS 466	Lebanon	2(1)	-	-	-	4(2)	-	
10106	NSS 154	Lebanon	3(1)	-	-	-	10388	NSS 312	Lebanon	3(1)	-	-	-	3(1)	-	
10107	NSS 155	Lebanon	3(1)	-	3(2)	-	10389	NSS 413	Lebanon	3(1)	-	3(1)	-	3(2)	-	
10108	NSS 157	Lebanon	3(1)	-	3(2)	-	10390	NSS 418	Lebanon	3(2)	-	-	-	3(2)	-	
10109	NSS 158	Lebanon	3(1)	-	3(1)	-	10391	NSS 414	Lebanon	3(1)	-	-	-	3(2)	-	
10110	NSS 159	Lebanon	3(1)	-	3(1)	-	10392	NJ 63341	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10111	NSS 161	Lebanon	3(1)	-	3(1)	-	10393	NJ 63342	Lebanon	2(1)	-	-	-	3(2)	-	
10112	NSS 164	Lebanon	3(1)	-	3(2)	-	10394	NJ 63343	Lebanon	2(1)	3(1)	3(2)	-	3(2)	-	
10113	NSS 165	Lebanon	3(1)	-	3(2)	-	10395	NJ 63344	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10114	NSS 169	Lebanon	2(1)	-	3(1)	-	10396	NJ 63345	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10115	NSS 171	Lebanon	3(2)	-	-	-	10397	NJ 63346	Lebanon	3(1)	-	-	-	3(2)	-	
10116	NSS 172	Lebanon	2(1)	3(1)	3(1)	-	10398	NJ 63347	Lebanon	3(1)	-	-	-	3(2)	3(2)	
10117	NSS 177	Lebanon	3(1)	-	3(2)	-	10399	NJ 63348	Lebanon	3(1)	-	-	-	3(2)	3(2)	
10118	NSS 178	Lebanon	3(1)	-	3(2)	-	10400	NJ 63349	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10119	NSS 180	Lebanon	3(1)	-	3(1)	-	10401	NJ 63350	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10120	NSS 182	Lebanon	3(1)	-	3(1)	-	10402	NJ 63351	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10121	NSS 185	Lebanon	2(1)	3(2)	-	-	10403	NJ 63352	Lebanon	2(1)	3(2)	-	-	3(2)	-	
10122	NSS 186	Lebanon	3(1)	-	3(1)	-	10404	NJ 63353	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10123	NSS 187	Lebanon	3(2)	-	-	-	10405	NJ 63354	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10124	NSS 189	Lebanon	3(1)	-	3(1)	-	10406	NJ 63355	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10125	NSS 190	Lebanon	3(1)	-	3(1)	-	10407	NJ 63356	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10126	NSS 207	Lebanon	2(1)	3(1)	3(1)	-	10408	NJ 63357	Lebanon	2(1)	4(1)	-	-	3(2)	-	
10127	NSS 214	Lebanon	3(1)	-	3(1)	-	10409	NJ 63358	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10128	NSS 218	Lebanon	3(1)	4(1)	-	-	10410	NJ 63359	Lebanon	2(1)	3(2)	-	-	3(2)	-	
10129	NSS 220	Lebanon	2(1)	3(1)	-	-	10411	NJ 63360	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10130	NSS 222	Lebanon	3(1)	-	3(1)	-	10412	NJ 63361	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10131	NSS 223	Lebanon	2(1)	3(1)	-	-	10413	NJ 63362	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10132	NSS 224	Lebanon	3(1)	3(1)	3(1)	-	10414	NJ 63363	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10133	NSS 225	Lebanon	3(1)	-	3(1)	-	10415	NJ 63364	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10134	NSS 226	Lebanon	2(1)	3(1)	3(1)	-	10416	NJ 63365	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10135	NSS 227	Lebanon	3(1)	-	3(2)	-	10417	NJ 63366	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10136	NSS 228	Lebanon	3(1)	3(1)	-	-	10418	NJ 63367	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10137	NSS 232	Lebanon	3(1)	3(1)	-	-	10419	NJ 63368	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10138	NSS 236	Lebanon	2(1)	4(1)	-	-	10420	NJ 63369	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10139	NSS 250	Lebanon	3(1)	3(1)	3(1)	-	10421	NJ 63370	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10140	NSS 260	Lebanon	3(1)	3(1)	3(1)	-	10422	NJ 63371	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10141	NSS 264	Lebanon	3(1)	3(1)	3(1)	-	10423	NJ 63372	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10142	NSS 266	Lebanon	3(1)	-	3(1)	-	10424	NJ 63373	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10143	NSS 269	Lebanon	3(1)	-	3(1)	-	10425	NJ 63374	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10144	NSS 270	Lebanon	3(1)	3(1)	3(2)	-	10426	NJ 63375	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10145	NSS 271	Lebanon	3(1)	3(1)	3(1)	-	10427	NJ 63376	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10146	NSS 272	Lebanon	3(1)	3(1)	3(1)	-	10428	NJ 63377	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10147	NSS 275	Lebanon	2(1)	4(1)	-	-	10429	NJ 63378	Lebanon	2(1)	3(1)	-	-	3(2)	-	
10148	NSS 276	Lebanon	2(1)	3(1)	3(1)	-	10430	NJ 63379	Lebanon	2(1)	3(1)	-	-	3(2)	-	

IS No	Alternate accession identifier	Source country	GF					IS No	Alternate accession identifier	Source country	SI					
			R	PR	DMB	LFS	HR				R	PR	DMB	LFS	HR	DR
0231	AFB 0248	Lebanon	3(1)	5(3)	-	-	5(2)	IR170	N 2	India	3(2)	3(2)	5(3)	-	5(2)	
0232	AFB 0249	Lebanon	2(1)	4(1)	5(1)	-	5(2)	IR171	N 3	India	3(1)	3(1)	5(1)	-	5(1)	
0233	AF 5452	Lebanon	3(1)	4(1)	-	-	5(2)	IR172	N 4	India	4(1)	4(1)	-	-	5(2)	
0234	Palmasid	Bangladesh	4(1)	-	-	-	5(1)	IR173	N 5	India	4(1)	4(1)	5(1)	-	5(2)	
0235	Sorghum segetum	Bangladesh	3(1)	4(1)	3(1)	-	5(1)	IR174	N 6	India	4(2)	3(2)	-	-	5(1)	
0236	Sorghum raypan	Bangladesh	2(1)	3(1)	-	-	-	IR175	N 7	India	4(1)	2(4)	5(1)	-	4(4)	
0238	Unkown	Bangladesh	4(1)	-	4(2)	-	5(2)	IR176	N 8	India	4(1)	4(4)	5(1)	-	4(3)	
0239	Local variety	Bangladesh	3(1)	-	-	-	-	IR177	N 9	India	4(1)	4(1)	5(1)	-	-	
0240	Local variety	Bangladesh	2(1)	4(1)	-	-	-	IR178	N 10	India	4(1)	2(1)	5(1)	-	3(2)	
0241	Local variety	Bangladesh	3(1)	4(1)	-	-	-	IR179	N 11	India	2(1)	4(2)	5(1)	-	5(2)	
0242	Sorghum californicum	Russia & CIS	2(1)	5(1)	4(2)	-	5(1)	IR180	N 12	India	2(1)	4(2)	5(1)	-	4(3)	
0243	Sorghum californicum	Russia & CIS	3(1)	-	4(1)	-	5(2)	IR181	N 13	India	4(2)	3(3)	3(4)	4(2)	5(1)	
0244	Sorghum segetum	Russia & CIS	3(1)	-	3(1)	-	5(2)	IR182	N 14	India	3(2)	3(2)	5(1)	-	5(1)	
0245	Unkown	Russia & CIS	3(1)	-	-	-	5(1)	IR183	N 1428	India	3(2)	3(2)	3(4)	-	4(4)	
0246	Sorghum segetum	Russia & CIS	3(1)	-	3(2)	-	5(1)	IR184	N 1428	India	4(4)	3(4)	4(2)	-	5(1)	
0248	5772R	Burkina Faso	5(1)	-	-	-	5(1)	IR185	NJ 1311-1	India	5(1)	5(2)	-	-	-	
0249	5782	Burkina Faso	5(1)	-	-	-	-	IR186	NJ 1411-2	India	4(3)	3(3)	5(2)	-	-	
0250	5777a	Burkina Faso	5(1)	-	-	-	5(1)	IR187	NJ 1435	India	4(2)	4(2)	5(1)	-	-	
0251	5791	Burkina Faso	5(1)	-	-	-	-	IR188	NJ 1441	India	4(2)	2(2)	5(1)	-	-	
0252	57291	Burkina Faso	3(1)	-	-	-	-	IR189	NJ 1815	India	2(1)	2(1)	5(1)	-	5(2)	
0254	5269	Burkina Faso	5(1)	-	-	-	-	IR190	NJ 1523	India	2(1)	3(2)	3(2)	-	4(4)	
0255	5293	Burkina Faso	5(1)	-	-	-	-	IR191	NJ 1562	India	5(1)	5(1)	-	-	-	
0256	5266	Burkina Faso	5(1)	-	-	-	-	IR192	NJ 1568	India	2(1)	2(1)	-	-	5(2)	
0257	5307	Burkina Faso	5(1)	-	-	-	-	IR193	NJ 1568	India	3(2)	3(2)	5(1)	-	5(2)	
0258	5347	Burkina Faso	5(1)	-	-	-	-	IR194	NJ 1593	India	3(2)	3(2)	5(1)	-	5(1)	
0259	58147-22-11	Burkina Faso	5(1)	-	-	-	-	IR195	NJ 1905	India	4(2)	3(2)	5(1)	-	4(4)	
0260	58147-22-11	Burkina Faso	5(1)	-	-	-	-	IR196	NJ 1905	India	4(4)	2(4)	3(2)	-	5(1)	
0261	53130	Burkina Faso	5(1)	-	-	-	-	IR197	D 340	India	2(1)	3(1)	-	-	5(2)	
0262	58177	Burkina Faso	5(1)	5(1)	-	-	5(1)	IR198	D 75	India	5(2)	4(2)	-	-	5(4)	
0263	53194	Burkina Faso	5(1)	-	-	-	5(1)	IR199	D 11	India	4(4)	3(4)	5(1)	-	-	
0264	53257	Burkina Faso	3(1)	-	-	-	-	IR200	G 2	India	3(2)	2(2)	5(1)	-	4(1)	
0265	53267	Burkina Faso	2(1)	-	-	-	5(1)	IR201	G 4	India	2(1)	2(1)	5(2)	-	4(1)	
0266	53372	Burkina Faso	5(1)	-	-	-	-	IR202	AKP 1	India	4(2)	4(2)	5(1)	-	5(2)	
0267	53372-1	Burkina Faso	5(1)	-	-	-	-	IR203	AKP 1	India	3(2)	4(2)	5(1)	-	5(2)	
0268	53473	Burkina Faso	5(1)	-	-	-	5(1)	IR204	AKP 1	India	4(4)	3(4)	5(1)	-	5(4)	
0270	54855	Burkina Faso	3(1)	-	-	-	5(1)	IR205	PJ 2R	India	4(4)	3(4)	3(2)	-	5(2)	
0271	54855-1	Burkina Faso	5(1)	-	-	-	-	IR206	PJ 3R	India	4(2)	3(2)	5(1)	-	3(2)	
0272	53534	Burkina Faso	5(1)	-	-	-	5(1)	IR207	PJ 3R	India	4(2)	2(2)	5(1)	-	5(1)	
0273	53534-1	Burkina Faso	5(1)	-	-	-	5(1)	IR208	PJ 3R	India	4(4)	2(4)	3(2)	-	5(1)	
0274	53534-1	Burkina Faso	5(1)	-	-	-	4(2)	2(4)	IR209	PJ 4R	India	4(2)	3(2)	5(1)	-	5(2)
0275	53699	Burkina Faso	5(1)	-	-	-	-	IR210	PJ 5R	India	4(4)	3(4)	5(1)	-	4(2)	
0277	53699-B	Burkina Faso	5(1)	-	-	-	-	IR211	PJ 6R	India	4(4)	2(4)	5(1)	-	4(2)	
0278	53684	Burkina Faso	5(3)	-	-	-	-	IR212	PJ 9R	India	4(2)	4(2)	5(1)	-	5(2)	
0279	53684-24-11-B	Burkina Faso	5(3)	-	-	-	5(1)	IR213	PJ 10R	India	3(2)	3(2)	3(2)	-	5(2)	
0280	53743	Burkina Faso	3(2)	-	-	-	-	IR214	PJ 11R	India	4(2)	2(2)	5(4)	-	5(2)	
0281	53812	Burkina Faso	5(1)	-	-	-	-	IR215	PJ 12R	India	4(2)	3(2)	5(1)	-	5(2)	
0282	54257	Burkina Faso	5(1)	-	-	-	5(1)	IR216	PJ 13R	India	3(2)	3(2)	3(4)	-	5(1)	
0283	54400	Burkina Faso	5(1)	-	-	-	-	IR217	PJ 14R	India	4(4)	3(4)	5(1)	-	5(1)	
0284	54826/24/1	Burkina Faso	5(2)	-	-	-	5(1)	IR218	PJ 15R	India	4(1)	3(1)	2(1)	-	5(3)	
0285	54826/24/1	Burkina Faso	4(2)	-	-	-	5(1)	IR219	PJ 16R	India	3(2)	2(2)	3(1)	-	5(2)	
0286	Uppes Vullu	Burkina Faso	5(1)	-	-	-	5(1)	IR220	PJ 17R	India	4(2)	3(2)	5(1)	-	5(2)	
0287	Fukimoutan	Niger	5(1)	-	-	-	5(1)	IR221	PJ 18R	India	3(4)	2(1)	3(1)	-	5(2)	
0288	Ling 3Q	Niger	2(1)	-	-	-	5(1)	IR222	PJ 19R	India	4(1)	3(4)	5(1)	-	5(1)	
0289	18991	Niger	4(1)	-	-	-	5(1)	IR223	PJ 1K	India	4(2)	4(2)	5(1)	-	4(2)	
0290	19271	Niger	3(2)	-	-	-	-	IR224	PJ 2K	India	4(1)	2(1)	5(1)	-	-	
0291	14314	Niger	3(1)	-	-	-	3(2)	IR225	PJ 3K	India	4(1)	3(1)	5(2)	-	5(1)	
0292	19411-B	Niger	3(1)	-	-	-	5(1)	IR226	PJ 4K	India	4(1)	2(1)	5(1)	-	-	
0293	14680-B	Niger	3(1)	-	-	-	5(1)	IR227	PJ 5K	India	2(1)	3(1)	2(1)	-	5(2)	
0294	13223-A	Niger	3(1)	-	-	-	5(2)	IR228	PJ 6K	India	4(1)	2(1)	5(1)	-	5(1)	
0296	30869	Niger	3(4)	5(1)	-	-	-	IR229	PJ 7K	India	4(1)	2(1)	-	-	5(1)	
0297	54867	Niger	3(2)	-	-	-	5(2)	IR230	PJ 8K	India	4(2)	4(2)	5(1)	-	5(2)	
0298	14516	Niger	3(1)	-	-	-	5(2)	IR231	PJ 9K	India	4(2)	4(2)	5(1)	-	4(4)	
0299	19411-A	Niger	4(1)	-	-	-	5(1)	IR232	PJ 10K	India	4(2)	4(1)	5(1)	-	5(2)	
0300	13351	Niger	2(1)	5(1)	-	-	5(1)	IR233	PJ 11K	India	4(1)	3(1)	5(1)	-	5(2)	
0301	13289-B	Niger	2(1)	5(1)	-	-	5(1)	IR234	PJ 12K	India	4(1)	2(1)	5(2)	-	5(1)	
0302	13658	Niger	4(2)	-	-	-	5(2)	IR235	PJ 13K	India	3(3)	3(3)	5(1)	-	-	
0303	19041-11-C	Niger	2(1)	-	-	-	5(1)	IR236	PJ 14K	India	3(1)	2(1)	5(1)	-	5(1)	
0304	15041-D	Niger	3(1)	-	-	-	5(1)	IR237	PJ 15K	India	4(1)	3(1)	5(1)	-	-	
0305	16143	Niger	3(1)	-	-	-	5(1)	IR238	PJ 16K	India	4(1)	3(1)	5(1)	-	-	
0306	13421	Niger	3(1)	-	-	-	5(1)	IR239	PJ 17K	India	3(1)	2(1)	5(1)	-	5(1)	
0307	15104	Niger	3(1)	-	-	-	5(1)	IR240	PJ 18K	India	4(4)	3(4)	5(1)	-	5(1)	
0308	13914	Niger	5(1)	-	-	-	5(1)	IR241	PJ 19K	India	4(2)	3(1)	5(2)	-	4(1)	
0309	15041-A	Niger	4(2)	-	-	-	5(2)	IR242	PJ 20K	India	4(2)	3(1)	3(2)	-	5(4)	
0310	13588-C	Niger	5(1)	-	-	-	5(1)	IR243	PJ 21K	India	4(1)	4(4)	3(1)	-	3(4)	
0311	14314	Niger	5(1)	-	-	-	5(2)	IR244	PJ 22K	India	4(2)	4(2)	5(2)	-	5(2)	
0312	14949	Niger	4(1)	-	-	-	5(1)	IR245	PJ 23K	India	4(1)	3(4)	5(1)	-	4(3)	
0314	1A + 1A0 + 1B + 2C + 2	Niger	3(1)	-	-	-	5(1)	IR246	PJ 24K	India	4(2)	4(2)	5(1)	-	5(1)	
0315	13223	Niger	5(1)	-	-	-	5(1)	IR247	PJ 25K	India	4(2)	4(1)	5(1)	-	5(4)	
0316	13668-26-16-B	Niger	4(1)	-	-	-	-	IR248	PJ 26K	India	4(1)	3(2)	5(1)	-	5(4)	
0317	13258-A	Niger	3(4)	-	-	-	1(1)	IR249	PJ 27K	India	4(2)	3(2)	5(1)	-	5(4)	
0318	13610-38-10	Niger	3(2)	5(1)	-	-	-	IR250	PJ 28K	India	3(4)	3(4)	5(1)	-	5(2)	
0319	N 1	India	4(2)	2(4)	5(1)	-	-	IR251	PJ 29K	India	4(2)	2(1)	3(2)	-	-	

IS No	Alternate accession	Source country	SF					SH					IS No	Alternate accession	Source country	SF					SH						
			R	PR	DHS	LFS	DR	DR	R	PR	DHS	LFS				DR	DR	R	PR	DHS	LFS	DR	DR	R	PR	DHS	LFS
18402	PF 516	India	4(2)	2(2)	3(1)	-	-	-	-	-	-	18484	CS 3541	India	4(2)	2(2)	-	-	-	-	-	-	-	-	4(1)	2(1)	
18403	PF 516	India	4(1)	2(1)	3(1)	-	-	5(1)	5(1)	-	-	18485	CS 3678-765	India	2(1)	3(1)	-	-	-	-	-	-	-	-	-	5(1)	
18404	PF 526	India	5(2)	3(2)	3(1)	-	-	4(1)	-	-	-	18486	CS 3687	India	3(1)	3(1)	-	-	-	-	-	-	-	-	-	5(2)	
18405	PF 536	India	4(1)	2(1)	3(1)	-	-	-	-	-	18487	RC 4	India	4(2)	2(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18406	PF 546	India	4(4)	2(4)	3(1)	-	-	4(2)	3(2)	-	18488	R 24	India	4(4)	2(4)	4(2)	4(2)	-	-	-	-	-	-	-	-	5(1)	
18407	PF 556	India	4(2)	2(2)	3(1)	-	-	5(1)	5(2)	-	18489	PS 11	India	4(2)	2(2)	3(1)	-	-	-	-	-	-	-	-	-	-	
18408	PF 566	India	4(4)	2(4)	3(1)	-	-	-	-	-	18490	PD 2-3	India	2(1)	2(1)	3(1)	1(1)	1(1)	-	-	-	-	-	-	-	5(2)	
18409	PF 646	India	3(2)	2(2)	3(1)	-	-	5(2)	-	-	18491	PD 2-5	India	3(1)	3(1)	3(2)	3(2)	-	-	-	-	-	-	-	-	5(2)	
18410	PF 736	India	2(2)	2(2)	-	-	-	5(2)	5(1)	-	18492	PD 3-1-11	India	3(1)	3(1)	3(2)	3(2)	-	-	-	-	-	-	-	-	5(2)	
18411	PF 756	India	4(4)	2(4)	3(1)	-	-	4(2)	-	-	18493	PS 478	India	3(4)	2(3)	3(2)	-	-	-	-	-	-	-	-	-	5(4)	
18412	PS 1	India	4(4)	2(4)	3(1)	-	-	5(2)	-	-	18494	SP 126	India	2(2)	2(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18413	Madhavi local	India	4(4)	2(4)	3(1)	-	-	5(2)	-	-	18495	MS	India	4(2)	2(2)	3(1)	-	-	-	-	-	-	-	-	-	5(2)	
18414	Changmari local	India	2(2)	2(2)	-	-	-	5(2)	-	-	18496	Panchari	India	2(2)	2(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18415	Nandini local	India	5(4)	3(4)	3(1)	-	-	5(2)	5(1)	-	18497	USV 3	India	2(2)	2(2)	3(2)	3(1)	-	-	-	-	-	-	-	-	5(2)	
18416	Kuppel local	India	3(1)	1(1)	-	-	-	5(2)	-	-	18498	USV 4	India	2(1)	2(1)	3(1)	-	-	-	-	-	-	-	-	-	5(2)	
18417	Kaad local	India	3(4)	2(4)	3(1)	-	-	-	-	-	18499	USV 5	India	1(1)	1(1)	3(2)	-	-	-	-	-	-	-	-	-	5(2)	
18418	Dhoni	India	4(2)	2(2)	-	-	-	4(1)	5(1)	-	18500	USV 7	India	2(1)	2(1)	4(2)	-	-	-	-	-	-	-	-	-	5(2)	
18419	Saonai jowar	India	4(1)	2(1)	2(2)	-	-	5(2)	-	-	18501	Panipar 3275	India	2(1)	2(1)	4(1)	-	-	-	-	-	-	-	-	-	5(2)	
18420	Khadni jowar	India	3(1)	2(1)	-	-	-	5(1)	-	-	18502	R 1	India	2(1)	-	-	-	-	-	-	-	-	-	-	-	5(2)	
18421	Ramkeli	India	4(2)	2(2)	2(2)	-	-	5(2)	-	-	18503	R 2	India	2(1)	-	1(1)	1(1)	-	-	-	-	-	-	-	-	5(2)	
18422	Bili gaj	India	4(1)	2(1)	-	-	-	5(2)	5(1)	-	18504	R 3	India	2(1)	4(2)	3(1)	-	-	-	-	-	-	-	-	-	5(2)	
18423	Sarai	India	4(2)	2(2)	3(1)	-	-	5(2)	-	-	18505	R 4	India	2(1)	4(2)	-	-	-	-	-	-	-	-	-	-	4(2)	
18424	Amraoti	India	5(1)	2(1)	4(1)	-	-	5(2)	-	-	18506	R 5	India	2(1)	5(1)	-	-	-	-	-	-	-	-	-	-	5(2)	
18425	Amraoti	India	2(2)	2(2)	3(1)	-	-	5(2)	-	-	18507	R 6	India	3(1)	5(1)	5(1)	-	-	-	-	-	-	-	-	-	5(2)	
18426	Amraoti	India	3(1)	3(1)	2(1)	-	-	5(2)	-	-	18508	R 7	India	4(2)	4(2)	5(1)	-	-	-	-	-	-	-	-	-	5(2)	
18427	Nialo	India	4(4)	2(4)	3(1)	-	-	5(2)	-	-	18509	Meeta Julo	India	4(2)	4(2)	5(1)	-	-	-	-	-	-	-	-	-	5(2)	
18428	K. wariy red	India	3(2)	2(2)	3(1)	-	-	5(2)	-	-	18510	P 7 Javo	India	1(2)	4(1)	1(1)	1(1)	1(1)	-	-	-	-	-	-	-	5(2)	
18429	K. wariy yellow	India	4(2)	2(2)	3(1)	-	-	5(2)	5(1)	-	18511	Jaigar white	India	2(1)	-	3(1)	1(1)	-	-	-	-	-	-	-	-	-	5(2)
18430	K. wariy white	India	3(1)	2(1)	3(1)	-	-	5(1)	-	-	18512	IS 1-1	India	3(1)	5(1)	2(4)	3(2)	-	-	-	-	-	-	-	-	5(2)	
18431	Vadaha NO 1	India	4(1)	3(1)	3(2)	-	-	4(3)	5(1)	-	18513	Hidhanganu	India	3(1)	4(1)	5(1)	-	-	-	-	-	-	-	-	-	5(2)	
18432	IP 53	India	4(2)	2(2)	3(1)	-	-	-	-	-	18514	CT 50-16	Bhutan	3(1)	-	-	-	-	-	-	-	-	-	-	-	5(2)	
18433	DMSS A 52	India	3(2)	2(2)	3(2)	-	-	5(2)	-	-	18515	Jain down 7	Uganda	2(2)	2(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18434	IS 131	India	3(2)	2(2)	3(1)	-	-	5(2)	-	-	18516	CS 2	Uganda	3(1)	3(1)	-	-	-	-	-	-	-	-	-	-	4(4)	
18435	IS 178	India	4(3)	2(3)	3(1)	-	-	5(1)	-	-	18517	CS 65	Uganda	4(2)	2(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18436	Khadni 2-2-2	India	3(2)	2(2)	3(2)	-	-	5(1)	5(2)	-	18518	Botho	Uganda	4(2)	4(2)	4(2)	-	-	-	-	-	-	-	-	-	5(2)	
18437	Khadni 5-1-1-B	India	3(1)	2(1)	2(2)	-	-	5(1)	5(2)	-	18519	Seruo	Uganda	4(2)	4(1)	4(2)	4(4)	5(1)	-	-	-	-	-	-	-	5(1)	
18438	II 107	India	4(1)	2(1)	3(1)	-	-	5(1)	5(1)	-	18520	Prondes	USA	3(4)	3(2)	-	-	-	-	-	-	-	-	-	-	5(2)	
18439	II 109	India	4(2)	2(2)	-	-	-	5(2)	5(1)	-	18521	Facket 1	USA	1(1)	3(1)	-	-	-	-	-	-	-	-	-	-	5(1)	
18440	II 107	India	4(2)	2(2)	-	-	-	5(2)	5(1)	-	18522	Facket 4 W	USA	4(2)	4(2)	5(1)	-	-	-	-	-	-	-	-	-	5(1)	
18441	II 109	India	4(2)	2(2)	-	-	-	5(2)	5(1)	-	18523	SI-0	USA	3(1)	4(1)	1(1)	1(1)	1(1)	-	-	-	-	-	-	-	5(2)	
18442	II 117	India	3(1)	2(1)	3(2)	-	-	4(5)	4(2)	-	18524	Zulu	USA	-	-	1(1)	1(2)	5(1)	-	-	-	-	-	-	-	5(1)	
18443	HC 116	India	4(1)	1(1)	3(1)	-	-	4(1)	3(2)	-	18525	S-06	USA	3(1)	4(2)	1(1)	1(1)	1(1)	-	-	-	-	-	-	-	5(1)	
18444	SPV 1	India	4(2)	2(2)	-	-	-	5(2)	-	-	18527	Rio 16	USA	3(1)	3(1)	-	-	-	-	-	-	-	-	-	-	5(1)	
18445	SPV 5	India	4(2)	2(2)	3(1)	-	-	4(5)	4(1)	-	18528	CS 2	Uganda	2(1)	2(1)	1(1)	1(1)	1(1)	-	-	-	-	-	-	-	5(2)	
18446	SPV 12	India	4(2)	2(2)	4(2)	-	-	5(1)	5(1)	-	18529	CS 3	Uganda	3(2)	3(2)	4(2)	3(1)	3(1)	-	-	-	-	-	-	-	5(2)	
18447	SPV 15	India	3(2)	2(2)	3(1)	-	-	3(5)	4(2)	-	18530	Giza 3 (white)	Egypt	3(1)	2(1)	4(2)	3(1)	-	-	-	-	-	-	-	-	5(1)	
18448	SPV 55	India	5(1)	2(1)	3(1)	-	-	5(2)	5(2)	-	18531	Giza 5	Egypt	4(2)	4(2)	5(2)	5(1)	5(1)	-	-	-	-	-	-	-	5(1)	
18449	SPV 55	India	3(1)	2(1)	-	-	-	5(2)	-	-	18532	Gid 2006	Egypt	4(2)	4(2)	5(1)	5(1)	5(1)	-	-	-	-	-	-	-	5(1)	
18450	SPV 55	India	3(1)	2(1)	-	-	-	5(1)	5(1)	-	18533	SS 2	Pakistan	4(1)	2(1)	5(1)	-	-	-	-	-	-	-	-	-	5(1)	
18451	SPV 71	India	3(1)	2(1)	3(2)	-	-	4(2)	5(1)	-	18534	S 29	Burkina Faso	2(1)	2(1)	-	-	-	-	-	-	-	-	-	-	5(2)	
18452	SPV 164	India	4(1)	2(1)	2(2)	-	-	4(1)	5(1)	-	18535	Semulape	Honduras	1(1)	4(1)	-	-	-	-	-	-	-	-	-	-	5(2)	
18453	SPV 329	India	4(1)	2(1)	3(2)	-	-	3(2)	5(1)	-	18536	SI Hondurano	Honduras	3(1)	4(1)	-	-	-	-	-	-	-	-	-	-	5(2)	
18454	K 0 2	India	1(1)	1(1)	2(1)	1(1)	1(1)	5(2)	-	-	18537	Rukimgini Indukina	Nepal	3(1)	3(1)	4(2)	-	-	-	-	-	-	-	-	-	5(1)	
18455	K 0 4	India	4(1)	2(1)	3(1)	-	-	4(2)	5(1)	-	18538	YF 06	United Kingdom	4(1)	3(1)	-	-	-	-	-	-	-	-	-	-	-	5(2)
18456	PF 11	India	3(4)	2(4)	3(1)	-	-	3(2)	5(2)	-	18539	Sulawalai	Swiss	2(1)	3(1)	3(1)	-	-	-	-	-	-	-	-	-	5(1)	
18457	FC 12	India	2(1)	2(1)	-	-	-	5(2)	-	-	18540	SI 29	Belgium	3(1)	3(1)	-	-	-	-	-	-	-	-	-	-	5(2)	
18458	FC 18	India																									

IS Nu	Alternate accession identifier	Alternate accession	Source country	SF					IR	IS Nu	Alternate accession identifier	Source country	SF					IR
				R	PR	DBIS	LFS	DR					R	PR	DBIS	LFS	DR	
18731	SC 175-24	USA	2(1)	4(1)	5(1)	-	3(1)		18719	H12 767	Sudan	-	-	-	-	5(1)		
18734	SC 176a-9	USA	2(1)	-	-	-	5(1)		18720	Unkown	Egypt	-	-	-	-	5(1)		
18735	SC 209-12	USA	2(1)	3(2)	-	-	3(1)		18721	Unkown	Yugoslavia	-	-	5(1)	-	5(1)		
18736	SC 217-96	USA	5(1)	4(1)	-	-	4(1)		18722	S 2	USA	-	-	-	-	5(1)		
18737	SC 239-14	USA	2(1)	5(1)	-	-	3(1)		18723	HDW 635	USA	-	-	-	-	5(1)		
18738	SC 250-6	USA	1(1)	-	5(1)	-	5(1)		18724	Unkown	Cote d'Ivoire	-	-	1(1)	1(1)	5(1)		
18739	SC 374-6	USA	1(1)	4(1)	-	-	5(1)		18725	Unkown	Cote d'Ivoire	-	-	5(1)	-	5(1)		
18740	SC 414-4	USA	2(1)	5(1)	-	-	5(1)		18726	Unkown	Cote d'Ivoire	-	-	5(1)	-	5(1)		
18741	SC 420-13	USA	2(1)	5(1)	-	-	4(1)		18729	S 3	Tanzania	-	-	-	-	5(1)		
18742	SC 423-14	USA	3(2)	4(1)	-	-	3(1)		18729	S 3	Tanzania	-	-	-	-	4(1)		
18743	SC 509a-3	USA	2(1)	4(1)	-	-	3(1)		18730	S 3	Tanzania	-	-	4(1)	-	3(1)		
18744	SC 509b-10	USA	2(1)	-	5(1)	-	3(1)		18731	PGI 30	Sudan	-	-	-	-	3(1)		
18745	SC 600-1	USA	1(1)	4(1)	-	-	4(1)	5(1)	18732	PGI 30-1	Sudan	-	-	-	-	3(1)		
18746	NSA 178	USA	2(1)	4(1)	5(1)	-	4(1)		18733	SAD 16	Malawi	-	-	-	-	3(1)		
18747	NSA 448-12	USA	4(1)	5(1)	-	-	3(1)		18734	Unkown	Cyprus	-	-	-	-	5(1)		
18748	INS 9	USA	3(1)	-	-	-	5(1)		18735	HDW 576-1	USA	-	-	-	-	5(1)		
18749	INS 234	USA	4(1)	-	-	-	5(1)		18736	HDW 581	Nigeria	-	-	-	-	3(1)		
18750	INS 207a	USA	2(1)	5(1)	-	-	5(1)		18737	HDW 758-1	USA	-	-	2(1)	1(1)	5(1)		
18751	INS 1-22	USA	3(1)	-	-	-	5(1)		18738	HDW 766-1	Sudan	-	-	-	-	5(1)		
18752	INS 4-7	USA	2(1)	-	-	-	5(1)		18739	Unkown	USA	-	-	2(1)	1(1)	4(1)		
18753	INS 5-42-20	USA	4(1)	-	4(1)	-	5(1)		18740	Unkown	USA	-	-	-	-	5(1)		
18754	INS 7-5	USA	2(1)	4(1)	-	-	5(1)		18741	HDW 604	USA	-	-	-	-	5(1)		
18755	INS 45 1-15	USA	2(1)	-	-	-	5(1)		18742	HDW 608	USA	-	-	-	-	5(1)		
18756	INS 47-41	USA	2(1)	-	-	-	5(1)		18743	HDW 760	USA	-	-	-	-	5(1)		
18757	Al-1	Algeria	3(1)	4(1)	2(1)	-	2(1)	5(1)	18744	Unkown	USA	-	-	-	-	5(1)		
18758	Al-1	Ethiopia	2(1)	4(1)	2(1)	-	4(1)	5(1)	18745	Unkown	India	-	-	-	-	5(1)		
18759	Al-1	Nigeria	3(1)	4(1)	5(1)	-	4(1)	5(1)	18746	Unkown	India	-	-	1(1)	1(1)	4(1)		
18760	Al-2	USA	3(1)	-	1(1)	-	5(1)		18747	Unkown	India	-	-	3(1)	1(1)	5(1)		
18761	Al-2	India	3(1)	-	5(1)	-	5(1)		18748	Unkown	India	-	-	-	-	5(1)		
18762	Al-2	India	2(1)	-	3(1)	-	5(1)		18749	Unkown	India	-	-	-	-	5(1)		
18763	Al-2	India	2(1)	5(1)	3(1)	-	5(1)		18750	S. indicus	India	-	-	-	-	5(1)		
18764	Al-2	India	2(1)	-	5(1)	-	-		18751	S. olivaceus	USA	-	-	5(1)	-	5(1)		
18765	Al-2	India	1(1)	5(1)	5(1)	-	5(1)		18752	S. olivaceus	USA	-	-	-	-	5(1)		
18766	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18753	S. indicus	USA	-	-	-	-	5(1)		
18767	Al-2	India	1(1)	5(1)	5(1)	-	5(1)		18754	S. indicus	USA	-	-	-	-	5(1)		
18768	Al-2	India	1(1)	5(1)	5(1)	-	5(1)		18755	S. indicus	USA	-	-	-	-	5(1)		
18769	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18756	S. indicus	USA	-	-	-	-	5(1)		
18770	Al-2	India	1(1)	5(1)	5(1)	-	5(1)		18757	S. indicus	USA	-	-	-	-	5(1)		
18771	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18758	S. indicus	USA	-	-	-	-	5(1)		
18772	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18759	S. indicus	USA	-	-	-	-	5(1)		
18773	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18760	S. indicus	USA	-	-	-	-	5(1)		
18774	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18761	S. indicus	USA	-	-	-	-	5(1)		
18775	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18762	S. indicus	USA	-	-	-	-	5(1)		
18776	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18763	S. indicus	USA	-	-	-	-	5(1)		
18777	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18764	S. indicus	USA	-	-	-	-	5(1)		
18778	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18765	S. indicus	USA	-	-	-	-	5(1)		
18779	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18766	S. indicus	USA	-	-	-	-	5(1)		
18780	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18767	S. indicus	USA	-	-	-	-	5(1)		
18781	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18768	S. indicus	USA	-	-	-	-	5(1)		
18782	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18769	S. indicus	USA	-	-	-	-	5(1)		
18783	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18770	S. indicus	USA	-	-	-	-	5(1)		
18784	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18771	S. indicus	USA	-	-	-	-	5(1)		
18785	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18772	S. indicus	USA	-	-	-	-	5(1)		
18786	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18773	S. indicus	USA	-	-	-	-	5(1)		
18787	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18774	S. indicus	USA	-	-	-	-	5(1)		
18788	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18775	S. indicus	USA	-	-	-	-	5(1)		
18789	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18776	S. indicus	USA	-	-	-	-	5(1)		
18790	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18777	S. indicus	USA	-	-	-	-	5(1)		
18791	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18778	S. indicus	USA	-	-	-	-	5(1)		
18792	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18779	S. indicus	USA	-	-	-	-	5(1)		
18793	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18780	S. indicus	USA	-	-	-	-	5(1)		
18794	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18781	S. indicus	USA	-	-	-	-	5(1)		
18795	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18782	S. indicus	USA	-	-	-	-	5(1)		
18796	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18783	S. indicus	USA	-	-	-	-	5(1)		
18797	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18784	S. indicus	USA	-	-	-	-	5(1)		
18798	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18785	S. indicus	USA	-	-	-	-	5(1)		
18799	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18786	S. indicus	USA	-	-	-	-	5(1)		
18800	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18787	S. indicus	USA	-	-	-	-	5(1)		
18801	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18788	S. indicus	USA	-	-	-	-	5(1)		
18802	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18789	S. indicus	USA	-	-	-	-	5(1)		
18803	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18790	S. indicus	USA	-	-	-	-	5(1)		
18804	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18791	S. indicus	USA	-	-	-	-	5(1)		
18805	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18792	S. indicus	USA	-	-	-	-	5(1)		
18806	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18793	S. indicus	USA	-	-	-	-	5(1)		
18807	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18794	S. indicus	USA	-	-	-	-	5(1)		
18808	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18795	S. indicus	USA	-	-	-	-	5(1)		
18809	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18796	S. indicus	USA	-	-	-	-	5(1)		
18810	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18797	S. indicus	USA	-	-	-	-	5(1)		
18811	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18798	S. indicus	USA	-	-	-	-	5(1)		
18812	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18799	S. indicus	USA	-	-	-	-	5(1)		
18813	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18800	S. indicus	USA	-	-	-	-	5(1)		
18814	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18801	S. indicus	USA	-	-	-	-	5(1)		
18815	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18802	S. indicus	USA	-	-	-	-	5(1)		
18816	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18803	S. indicus	USA	-	-	-	-	5(1)		
18817	Al-2	India	2(1)	5(1)	5(1)	-	5(1)		18804	S. indicus	USA	-	-	-	-	5(1)		
18818	Al-2	India																

IS No	Alternative accession	Source country	IS No	Alternative accession	Source country	SI						SI							
						R	PR	DIS	LIS	LR	DR	R	PR	DIS	LIS	LR	DR		
0500	HW 76b	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0505	HW 76c	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0507	HW 767	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0508	HW 768	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0509	HW 771	Chad	-	-	Chad	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0510	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0511	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0512	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0513	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0514	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0515	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0516	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0517	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0518	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0519	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0520	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0521	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0522	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0523	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0524	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0525	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0526	Unknown	North Africa	-	-	North Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0527	Unknown	South Africa	-	-	South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0528	Unknown	North Africa	-	-	North Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0529	HW 80-54	Malawi	-	-	Malawi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0530	HW 80-94	Malawi	-	-	Malawi	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0531	Phaeocephalus	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0532	Unknown	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0533	S. arizonae	Philippines	-	-	Philippines	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0534	Unknown	South Africa	-	-	South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0535	Unknown	Ethiopia	-	-	Ethiopia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0536	Unknown	Ethiopia	-	-	Ethiopia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0537	S. arizonae	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0538	USA 738	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0539	HW 738	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0540	Unknown	South Africa	-	-	South Africa	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0541	R. I. R. N. 51	Tanzania	-	-	Tanzania	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0542	HW 80-100	Tanzania	-	-	Tanzania	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0543	S. pygmaea	Tanzania	-	-	Tanzania	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0544	Algeria	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0545	Algeria	Sudan	-	-	Sudan	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0546	Phaeocephalus	Botswana	-	-	Botswana	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0547	HW 300	India	-	-	India	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0548	USA 739A	India	-	-	India	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0549	USA 739B	India	-	-	India	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0550	USA 739C	India	-	-	India	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0551	Unknown	India	-	-	India	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0552	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0553	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0554	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0555	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0556	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0557	S. arizonae	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0558	S. arizonae	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0559	S. arizonae	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0560	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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0564	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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0568	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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0571	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0572	Unknown	Australia	-	-	Australia	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0573	Unknown	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0574	Unknown	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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0576	Unknown	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0577	Unknown	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0578	Unknown	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0579	17742	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0580	17742 1	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0581	17748	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0582	17749	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0583	17750	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0584	17751	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0585	17752	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0586	17753	USA	-	-	USA	-	-	-	-	-	-	-	-	-	-	-	-	-	-

IS No	Alternative accession identifier	Source identifier	Nucleotide					IS No	Alternative accession identifier	Source country	Amino acid				
			R	FR	DR	LFS	LFS				DR	DR	R	FR	DR
19564	Cross 47/35	Sudan	463	-	413	413	411	19616	Cross 56/39	Sudan	411	413	413	411	411
19565	Cross 57/90	Sudan	441	-	413	413	411	19647	Cross 52/42	Sudan	411	413	413	411	411
19566	2117	Sudan	464	411	413	413	411	19648	Cross 52/2	Sudan	411	413	413	411	411
19567	Cross 61/52	Sudan	462	-	411	413	411	19649	Cross 54/8	Sudan	411	413	413	411	411
19568	Cross 62/22	Sudan	461	-	411	413	411	19650	Cross 47/47	Sudan	411	413	413	411	411
19569	Cross 75/9	Sudan	421	411	413	413	411	19651	Cross 54/51	Sudan	411	413	413	411	411
19570	Cross 10/8	Sudan	411	-	413	413	411	19652	Cross 16/1	Sudan	411	413	413	411	411
19571	Cross 54/204	Sudan	411	-	411	413	411	19653	IS 10214	Sudan	411	413	413	411	411
19572	Cross 43/24	Sudan	411	-	411	413	411	19654	IS 10215	Sudan	411	413	413	411	411
19573	Cross 41/1	Sudan	411	-	411	413	411	19655	IS 10216	Sudan	411	413	413	411	411
19574	Cross 58/12	Sudan	411	-	411	413	411	19656	IS 10217	Sudan	411	413	413	411	411
19575	Cross 64/33	Sudan	411	-	411	413	411	19657	IS 10218	Sudan	411	413	413	411	411
19576	Cross 65/70	Sudan	411	411	413	413	411	19658	IS 10219	Sudan	411	413	413	411	411
19577	Cross 65/22	Sudan	411	411	413	413	411	19659	IS 10220	Sudan	411	413	413	411	411
19578	Cross 26/67	Sudan	411	-	411	413	411	19660	IS 10221	Sudan	411	413	413	411	411
19579	Cross 31/16	Sudan	411	-	411	413	411	19661	IS 10222	Sudan	411	413	413	411	411
19580	Cross 31/24	Sudan	411	-	411	413	411	19662	IS 10223	Sudan	411	413	413	411	411
19581	Cross 31/27	Sudan	411	-	411	413	411	19663	IS 10224	Sudan	411	413	413	411	411
19582	Cross 42/25	Sudan	411	-	411	413	411	19664	IS 10225	Sudan	411	413	413	411	411
19583	Cross 56/23	Sudan	411	-	411	413	411	19665	IS 10226	Sudan	411	413	413	411	411
19584	Cross 43/19	Sudan	411	-	411	413	411	19666	IS 10227	Sudan	411	413	413	411	411
19585	Cross 51/58	Sudan	411	-	411	413	411	19667	IS 10228	Sudan	411	413	413	411	411
19586	Cross 64/16	Sudan	411	-	411	413	411	19668	IS 10229	Sudan	411	413	413	411	411
19587	Cross 31/6	Sudan	411	-	411	413	411	19669	IS 10230	Sudan	411	413	413	411	411
19588	Cross 51/14	Sudan	411	-	411	413	411	19670	IS 10231	Sudan	411	413	413	411	411
19589	Cross 36/17(22)	Sudan	411	-	411	413	411	19671	IS 10232	Sudan	411	413	413	411	411
19590	Cross 36/18	Sudan	411	-	411	413	411	19672	IS 10233	Sudan	411	413	413	411	411
19591	Link 1000	Sudan	411	-	411	413	411	19673	IS 10234	Sudan	411	413	413	411	411
19592	Cross 41/40	Sudan	411	-	411	413	411	19674	IS 10235	Sudan	411	413	413	411	411
19593	Cross 37/1	Sudan	411	-	411	413	411	19675	IS 10236	Sudan	411	413	413	411	411
19594	Cross 65/11	Sudan	411	-	411	413	411	19676	IS 10237	Sudan	411	413	413	411	411
19595	Cross 65/41	Sudan	411	-	411	413	411	19677	IS 10238	Sudan	411	413	413	411	411
19596	Cross 65/77	Sudan	411	-	411	413	411	19678	IS 10239	Sudan	411	413	413	411	411
19597	Cross 41/30	Sudan	411	-	411	413	411	19679	IS 10240	Sudan	411	413	413	411	411
19598	Cross 35/29	Sudan	411	-	411	413	411	19680	IS 10241	Sudan	411	413	413	411	411
19599	2940	Sudan	411	-	411	413	411	19681	IS 10242	Sudan	411	413	413	411	411
19600	Cross 37/10	Sudan	411	-	411	413	411	19682	IS 10243	Sudan	411	413	413	411	411
19601	Cross 37/11	Sudan	411	-	411	413	411	19683	IS 10244	Sudan	411	413	413	411	411
19602	Cross 36/29	Sudan	411	-	411	413	411	19684	IS 10245	Sudan	411	413	413	411	411
19603	Cross 41/36(16)	Sudan	411	-	411	413	411	19685	IS 10246	Sudan	411	413	413	411	411
19604	Cross 31/1/3	Sudan	411	-	411	413	411	19686	IS 10247	Sudan	411	413	413	411	411
19605	Cross 31/3	Sudan	411	-	411	413	411	19687	IS 10248	Sudan	411	413	413	411	411
19606	Cross 48/33	Sudan	411	-	411	413	411	19688	IS 10249	Sudan	411	413	413	411	411
19607	Cross 47/29	Sudan	411	-	411	413	411	19689	IS 10250	Sudan	411	413	413	411	411
19608	Cross 51/28	Sudan	411	-	411	413	411	19690	IS 10251	Sudan	411	413	413	411	411
19609	Cross 53/58	Sudan	411	-	411	413	411	19691	IS 10252	Sudan	411	413	413	411	411
19610	Cross 31/36	Sudan	411	-	411	413	411	19692	IS 10253	Sudan	411	413	413	411	411
19611	Cross 31/115	Sudan	411	-	411	413	411	19693	IS 10254	Sudan	411	413	413	411	411
19612	Cross 31/1	Sudan	411	-	411	413	411	19694	IS 10255	Sudan	411	413	413	411	411
19613	Cross 31/30	Sudan	411	-	411	413	411	19695	IS 10256	Sudan	411	413	413	411	411
19614	Cross 44/18	Sudan	411	-	411	413	411	19696	IS 10257	Sudan	411	413	413	411	411
19615	Cross 53/17	Sudan	411	-	411	413	411	19697	IS 10258	Sudan	411	413	413	411	411
19616	Cross 54/16	Sudan	411	-	411	413	411	19698	IS 10259	Sudan	411	413	413	411	411
19617	Cross 40/14	Sudan	411	-	411	413	411	19699	IS 10260	Sudan	411	413	413	411	411
19618	Cross 41/2	Sudan	411	-	411	413	411	19700	IS 10261	Sudan	411	413	413	411	411
19619	Cross 47/36	Sudan	411	-	411	413	411	19701	IS 10262	Sudan	411	413	413	411	411
19620	214	Sudan	411	-	411	413	411	19702	IS 10263	Sudan	411	413	413	411	411
19621	Cross 51/3/52	Sudan	411	-	411	413	411	19703	IS 10264	Sudan	411	413	413	411	411
19622	Cross 22/1	Sudan	411	-	411	413	411	19704	IS 10265	Sudan	411	413	413	411	411
19623	Cross 28/14	Sudan	411	-	411	413	411	19705	IS 10266	Sudan	411	413	413	411	411
19624	Cross 37/20	Sudan	411	-	411	413	411	19706	IS 10267	Sudan	411	413	413	411	411
19625	Cross 41/37	Sudan	411	-	411	413	411	19707	IS 10268	Sudan	411	413	413	411	411
19626	Cross 48/4/4	Sudan	411	-	411	413	411	19708	IS 10269	Sudan	411	413	413	411	411
19627	Cross 47/24	Sudan	411	-	411	413	411	19709	IS 10270	Sudan	411	413	413	411	411
19628	Cross 53/8/10	Sudan	411	-	411	413	411	19710	IS 10271	Sudan	411	413	413	411	411
19629	Cross 61/94	Sudan	411	-	411	413	411	19711	IS 10272	Sudan	411	413	413	411	411
19630	Cross 48/40	Sudan	411	-	411	413	411	19712	IS 10273	Sudan	411	413	413	411	411
19631	Cross 62/16	Sudan	411	-	411	413	411	19713	IS 10274	Sudan	411	413	413	411	411
19632	2105	Sudan	411	-	411	413	411	19714	IS 10275	Sudan	411	413	413	411	411
19633	Cross 40/3	Sudan	411	-	411	413	411	19715	IS 10276	Sudan	411	413	413	411	411
19634	Cross 40/17	Sudan	411	-	411	413	411	19716	IS 10277	Sudan	411	413	413	411	411
19635	Cross 46/35	Sudan	411	-	411	413	411	19717	IS 10278	Sudan	411	413	413	411	411
19636	2294	Sudan	411	-	411	413	411	19718	IS 10279	Sudan	411	413	413	411	411
19637	Cross 62/14	Sudan	411	-	411	413	411	19719	IS 10280	Sudan	411	413	413	411	411
19638	Cross 65	Sudan	411	-	411	413	411	19720	IS 10281	Sudan	411	413	413	411	411
19639	Cross 61/28	Sudan	411	-	411	413	411	19721	IS 10282	Sudan	411	413	413	411	411
19640	Cross 67/98	Sudan	411	-	411	413	411	19722	IS 10283	Sudan	411	413	413	411	411
19641	Cross 64/29	Sudan	411	-	411	413	411	19723	IS 10284	Sudan	411	413	413		

IN No.	Alternate accession identifier	Source country	SF						IS No.	Alternate accession identifier	Source country	SF					
			R	PR	DRS	LN	DR	DR				R	PR	DRS	LN	DR	DR
20063	Nitroka	Senegal	5(1)	-	5(1)	-	-	20245	SG_2022	Senegal	5(1)	-	5(1)	-	-		
20064	Kinfe	Senegal	5(1)	-	5(1)	-	-	20246	Itarsi wende	Senegal	5(1)	-	5(1)	-	-		
20065	Itarsi	Senegal	5(1)	-	5(1)	-	-	20247	Kinfe	Senegal	5(1)	-	5(1)	-	-		
20066	Manghite	Senegal	5(1)	-	5(1)	-	-	20248	Itarsi	Senegal	5(1)	-	5(1)	-	-		
20067	Itarsi	Senegal	5(1)	-	5(1)	-	-	20249	Kinfe	Senegal	5(1)	-	5(1)	-	-		
20068	SG_1908	Senegal	5(2)	-	5(2)	-	3(2)	20250	Kinfe	Senegal	5(1)	-	5(1)	-	-		
20069	Kinfe	Senegal	5(2)	-	5(2)	-	-	20254	SG_2024	Senegal	5(1)	-	5(1)	-	-		
20070	Nin	Senegal	5(2)	-	5(1)	-	-	20257	Itarsi	Senegal	5(1)	-	5(1)	-	-		
20071	Yandir	Senegal	5(2)	-	5(1)	-	-	20253	Kinfe	Senegal	5(1)	-	5(1)	-	-		
20072	Sumbudyalon	Senegal	5(2)	-	5(1)	-	-	20254	Itarsi wende	Senegal	5(1)	-	5(1)	-	-		
20073	Djigal	Senegal	5(2)	-	5(1)	-	-	20255	Mandari	Niger	5(1)	-	5(1)	-	-		
20074	SG_1909	Senegal	5(2)	-	5(1)	-	-	20256	Mandari	Niger	5(1)	-	5(1)	-	-		
20075	Kinfe	Senegal	5(2)	-	5(2)	-	-	20257	Mandari	Niger	5(2)	-	5(1)	-	-		
20076	SG_1906	Senegal	5(2)	-	5(2)	-	-	20258	Lalla	Niger	5(1)	-	5(1)	-	-		
20077	Dillo wende	Senegal	5(2)	-	5(2)	-	-	20259	Itarsi	Niger	5(2)	-	5(2)	-	5(1)		
20078	Itarsi	Senegal	5(2)	-	5(1)	-	-	20260	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20079	Itarsi	Senegal	5(2)	-	5(2)	-	-	20261	Lalla	Niger	5(1)	-	5(1)	-	-		
20080	SG_1905	Senegal	5(1)	-	5(1)	-	-	20262	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20081	SG_1907	Senegal	5(2)	-	5(2)	-	-	20263	Lalla	Niger	5(1)	-	5(2)	-	5(1)		
20082	SG_1903	Senegal	5(1)	-	5(1)	-	-	20264	Itarsi wende	Niger	5(2)	-	5(2)	-	5(1)		
20083	Dillo wende	Senegal	5(1)	-	5(2)	-	-	20265	Mandari	Niger	5(2)	-	5(1)	-	5(1)		
20084	Nin	Senegal	5(1)	-	5(1)	-	-	20266	Itarsi wende	Niger	5(2)	-	5(2)	-	5(1)		
20085	Nin	Senegal	5(1)	-	5(1)	-	-	20267	Dandari	Niger	5(1)	-	5(1)	-	-		
20086	Kinfe	Senegal	5(2)	-	5(2)	-	-	20268	Lalla	Niger	5(1)	-	5(1)	-	5(2)		
20087	Mogal	Senegal	5(2)	-	5(1)	-	-	20269	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20088	Gadabo	Senegal	5(2)	-	5(1)	-	-	20270	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20089	Itarsi	Senegal	5(2)	-	5(2)	-	-	20271	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20090	Itarsi	Senegal	5(2)	-	5(1)	-	-	20272	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20091	Itarsi wende	Senegal	5(2)	-	5(1)	-	-	20273	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20092	Itarsi	Senegal	5(2)	-	5(1)	-	-	20274	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20093	Itarsi	Senegal	5(2)	-	5(1)	-	-	20275	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20094	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20276	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20095	Itarsi	Senegal	5(2)	-	5(1)	-	-	20277	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20096	Kinfe	Senegal	5(2)	-	5(1)	-	-	20278	Lalla	Niger	5(1)	-	5(1)	-	-		
20097	Itarsi	Senegal	5(1)	-	5(1)	-	-	20279	Gadabo	Niger	5(1)	-	5(1)	-	5(1)		
20098	Itarsi	Senegal	5(1)	-	5(1)	-	-	20280	Gadabo	Niger	5(1)	-	5(2)	-	5(1)		
20099	Kinfe wende	Senegal	5(1)	-	5(1)	-	-	20281	Gadabo	Niger	5(2)	-	5(2)	-	5(1)		
20100	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20282	Itarsi wende	Niger	5(2)	-	5(2)	-	5(1)		
20101	Itarsi	Senegal	5(1)	-	5(1)	-	-	20283	Gadabo	Niger	5(1)	-	5(1)	-	5(1)		
20102	Kinfe	Senegal	5(1)	-	5(1)	-	-	20284	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20103	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20285	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20104	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20286	Dandari	Niger	5(1)	-	5(1)	-	-		
20105	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20287	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20106	Sumbudyalon	Senegal	5(1)	-	5(1)	-	-	20288	Gadabo	Niger	5(1)	-	5(2)	-	5(1)		
20107	Sumbudyalon	Senegal	5(1)	-	5(1)	-	-	20289	Lalla	Niger	5(2)	-	5(2)	-	5(1)		
20108	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20290	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20109	Itarsi	Senegal	5(1)	-	5(1)	-	-	20291	Itarsi wende	Niger	5(2)	-	5(2)	-	5(1)		
20110	Itarsi	Senegal	5(1)	-	5(1)	-	-	20292	SG_2020	Niger	5(2)	-	5(2)	-	-		
20111	Sumbudyalon	Senegal	5(1)	-	5(1)	-	-	20293	SG_2020	Niger	5(2)	-	5(2)	-	-		
20112	SG_2308	Senegal	5(1)	-	5(2)	-	5(1)	20294	Itarsi wende	Niger	5(2)	-	5(1)	-	-		
20113	Itarsi	Senegal	5(2)	-	5(1)	-	-	20295	Kuchibou	Niger	5(2)	-	5(1)	-	-		
20114	Itarsi	Senegal	5(2)	-	5(1)	-	-	20296	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20115	Itarsi	Senegal	5(2)	-	5(1)	-	-	20297	Lalla	Niger	5(1)	-	5(1)	-	-		
20116	Kuchibou	Senegal	5(1)	-	5(1)	-	5(1)	20298	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20117	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20299	Dandari	Niger	5(1)	-	5(2)	-	5(1)		
20118	Nitroka	Senegal	5(1)	-	5(1)	-	-	20300	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20119	Kinfe wende	Senegal	5(1)	-	5(1)	-	-	20301	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20120	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20302	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20121	Nitroka	Senegal	5(1)	-	5(1)	-	-	20303	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20122	Kinfe	Senegal	5(1)	-	5(1)	-	-	20304	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20123	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20305	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20124	Itarsi	Senegal	5(1)	-	5(1)	-	-	20306	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20125	Itarsi	Senegal	5(1)	-	5(1)	-	-	20307	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20126	Itarsi	Senegal	5(1)	-	5(1)	-	-	20308	Itarsi wende	Niger	5(1)	-	5(1)	-	5(1)		
20127	Itarsi	Senegal	5(1)	-	5(1)	-	-	20309	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20128	Itarsi	Senegal	5(1)	-	5(1)	-	-	20310	Itarsi wende	Niger	5(1)	-	5(1)	-	5(2)		
20129	Itarsi	Senegal	5(1)	-	5(1)	-	-	20311	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20130	Itarsi	Senegal	5(1)	-	5(1)	-	-	20312	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20131	Itarsi	Senegal	5(1)	-	5(1)	-	-	20313	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20132	Itarsi	Senegal	5(1)	-	5(1)	-	-	20314	Lalla	Niger	5(1)	-	5(1)	-	-		
20133	Sumbudyalon	Senegal	5(1)	-	5(1)	-	-	20315	Lalla	Niger	5(1)	-	5(1)	-	-		
20134	Kuchibou	Senegal	5(1)	-	5(1)	-	-	20316	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20135	Kuchibou	Senegal	5(1)	-	5(1)	-	-	20317	Lalla	Niger	5(1)	-	5(1)	-	-		
20136	Itarsi	Senegal	5(2)	-	5(1)	-	-	20318	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20137	Itarsi	Senegal	5(2)	-	5(1)	-	-	20319	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20138	Itarsi	Senegal	5(2)	-	5(1)	-	-	20320	Kuchibou	Niger	5(1)	-	5(1)	-	-		
20139	Itarsi	Senegal	5(1)	-	5(1)	-	-	20321	Itarsi wende	Niger	5(2)	-	5(1)	-	-		
20140	Itarsi wende	Senegal	5(1)	-	5(1)	-	-	20322	Kuchibou	Niger	5(1)	-	5(2)	-	5(1)		
20141	Kinfe	Senegal	5(2)	-	5(2)	-	-	20323	Itarsi wende	Niger	5(1)	-	5(1)	-	-		
20142	Nitroka	Senegal	5(2)	-	5(1)	-	-	20324	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		
20143	Sumbudyalon	Senegal	5(2)	-	5(1)	-	-	20325	Mogal	Niger	5(1)	-	5(2)	-	-		
20144	Kinfe	Senegal	5(2)	-	5(1)	-	-	20326	Itarsi wende	Niger	5(1)	-	5(2)	-	5(1)		

IN No	Alternate accession identifier	Source country	SP						IN No	Alternate accession identifier	Source country	SP					
			R	PK	JMS	LFS	DM	DR				R	PK	JMS	LFS	DM	DR
20227	Fensungume	Niger	5(1)				5(2)	20106	Jen-jari	Niger	5(1)		5(2)		5(1)		
20228	Ar dawo	Niger	5(1)					20107	Sybilu	Niger	5(1)		5(2)		5(1)		
20229	Babalin	Niger	5(1)		5(2)			20111	Ten tawana	Niger	5(1)		5(1)		5(1)		
20131	A. Lenné	Niger	5(1)		4(2)		5(1)	20112	El kressé	Niger	4(1)		5(1)				
20231	Koussé	Niger	5(1)		4(2)		5(1)	20113	El moutajo	Niger	5(1)		5(1)				
20242	Fara fara	Niger	5(1)		5(1)		5(1)	20114	Du dawo	Niger	5(1)		5(1)				
20211	Bahadua	Niger	5(1)		5(1)			20115	El koutoukale	Niger	5(1)		5(1)				
20134	Lalla	Niger	5(1)		5(1)			20116	Hagoutou	Niger	5(1)		5(1)				
20245	Lalla	Niger	5(1)		5(1)		2(1)	20117	Tingou rou-mou	Niger	5(1)		5(1)				
20136	Fara fara	Niger	5(1)		4(2)		5(1)	20118	Kiemou	Niger	5(1)		5(1)				
20217	Temakéni	Niger	5(1)		4(2)		5(1)	20119	Mota	Niger	5(1)		5(2)		5(1)		
20238	SC 2144	Niger	5(1)		5(2)			20120	Fara dawo	Niger	5(1)		4(2)		5(1)		
20240	Lalla	Niger	5(1)		5(2)			20121	Ar dawo	Niger	5(1)		5(1)				
20246	Fara fara	Niger	5(1)		4(2)		5(1)	20122	Kiemou	Niger	5(1)		5(1)		5(1)		
20241	Kéni	Niger	5(1)		5(1)			20123	Sahelmasse	Niger	5(1)		5(1)				
20242	Fara dawo	Niger	5(1)		4(2)		5(1)	20124	Mota	Niger	5(1)		5(2)		5(1)		
20243	Lahameran	Niger	5(1)		5(1)			20125	El bazanga	Niger	5(1)		5(1)				
20234	Lalla	Niger	5(1)		5(1)			20126	El bazanga	Niger	5(1)		5(2)		5(1)		
20248	Fara dawo	Niger	5(1)		4(2)		5(1)	20127	Fara dawo	Niger	5(1)		5(1)				
20246	Hahadi jo	Niger	5(1)		5(1)			20128	Fara dawo	Niger	5(1)		5(2)		5(1)		
20247	Fara fara	Niger	5(1)		4(2)		5(1)	20129	El bazanga	Niger	5(1)		5(1)				
20248	Hahadi fara	Niger	5(1)		5(1)			20130	El kouda	Niger	5(1)		5(1)				
20249	Tawazé	Niger	5(1)		5(1)			20131	El jani	Niger	5(1)		5(2)		5(1)		
20250	Sahelmasse	Niger	5(1)		5(1)			20132	Mota	Niger	5(1)		4(2)		5(1)		
20251	Ar dawo	Niger	5(1)		4(2)		5(1)	20133	Koussé	Niger	5(1)		4(2)		5(1)		
20252	Mota	Niger	5(1)		4(2)		5(1)	20134	Jen-jari	Niger	5(1)		5(1)		5(1)		
20253	Edelie	Niger	5(1)		5(1)			20135	Tjaka	Niger	5(1)		4(2)		5(1)		
20254	El bazanga	Niger	5(1)		5(1)			20136	El dawo	Niger	5(1)		5(1)		5(1)		
20255	El borni	Niger	5(1)		4(2)		5(1)	20137	Dou-jari	Niger	5(1)		5(2)		5(1)		
20256	Mota	Niger	5(1)		4(2)		5(1)	20138	Hagoutou	Niger	5(1)		5(1)				
20257	Mota	Niger	5(1)		5(1)		5(1)	20139	Hagoutou	Niger	5(1)		5(1)				
20258	Mota	Niger	5(1)		4(2)		5(1)	20140	Lahajari	Niger	5(1)		5(1)		5(1)		
20259	Du dawo	Niger	5(1)		5(1)			20141	Jen-jari	Niger	5(1)		5(2)		5(1)		
20260	El stouché	Niger	4(1)		5(1)			20142	Jen-jari	Niger	5(1)		5(1)		5(1)		
20261	Mota	Niger	5(1)		4(2)		5(1)	20143	Agjilchi	Niger	5(1)		5(1)		5(1)		
20262	Mota	Niger	5(1)		4(2)		5(1)	20144	Jen-jari	Niger	5(1)		5(1)		5(1)		
20263	Mota	Niger	5(1)		4(2)		5(2)	20145	Fara dawo	Niger	5(1)		5(2)		5(1)		
20264	Fara dawo	Niger	5(1)		5(1)			20146	Takongimbrone	Niger	5(1)		5(2)		5(1)		
20265	Fara dawo	Niger	5(1)		4(2)		5(2)	20147	El bazanga	Niger	5(1)		5(2)		5(1)		
20266	Fara dawo	Niger	5(1)		4(2)		5(1)	20148	Jen-jari	Niger	5(1)		5(2)		5(1)		
20267	Jen-jari	Niger	5(1)		4(2)		5(1)	20149	Hahadihouze	Niger	5(1)		4(2)		5(1)		
20268	Fara dawo	Niger	5(1)		4(2)		5(1)	20150	Fara dawo	Niger	5(1)		5(1)		5(1)		
20269	Edou koussé	Niger	4(1)		5(1)			20151	Brurina	Niger	5(1)		4(2)		5(1)		
20270	El kressé	Niger	5(1)		4(2)		5(2)	20152	Takouf	Niger	5(1)		4(2)		5(1)		
20271	El bazanga	Niger	5(1)		5(1)			20153	Agjilchi	Niger	5(1)		4(2)		5(1)		
20272	Mota	Niger	5(1)		4(2)		5(1)	20154	Hagoutou	Niger	5(1)		5(1)				
20273	Lalla	Niger	5(1)		5(1)			20155	Hagoutou	Niger	5(1)		5(1)				
20274	Bahadua	Niger	5(1)		5(2)			20156	Fara dawo	Niger	5(1)		5(1)				
20275	Lalla	Niger	5(1)		4(2)		5(1)	20157	Jen-jari	Niger	5(1)		5(1)		5(1)		
20276	Mota	Niger	5(1)		4(2)		5(1)	20158	Takoufou benzou	Niger	5(1)		4(2)		5(1)		
20277	Zemiloukou	Niger	5(1)		4(2)			20159	Fara dawo	Niger	5(1)		5(1)		5(1)		
20278	Bahadua	Niger	5(1)		5(1)			20160	blati	Niger	5(1)		5(2)		5(1)		
20279	Mota	Niger	4(1)		5(1)			20161	Hagoutou	Niger	5(1)		5(1)				
20280	Hahadi	Niger	4(1)		5(2)			20162	Jen-jari	Niger	5(1)		5(2)		5(1)		
20281	Lalla	Niger	5(1)		5(1)			20163	Mota	Niger	5(1)		4(2)		5(1)		
20282	Hahadi	Niger	5(1)		5(1)			20164	Hagoutou	Niger	5(1)		4(2)		5(1)		
20283	Ar dawo	Niger	5(1)		5(1)			20165	Motou	Niger	5(1)		4(2)		5(1)		
20284	Ar dawo	Niger	5(1)		5(1)			20166	Motou	Niger	5(1)		4(2)		5(1)		
20285	Motou	Niger	5(1)		5(1)			20167	Motou	Niger	5(1)		4(2)		5(1)		
20286	Bahadua	Niger	5(1)		4(2)		5(1)	20168	Motou	Niger	5(1)		4(2)		5(1)		
20287	El bazanga jo	Niger	5(1)		4(1)			20169	Talaham	Niger	5(1)		4(2)		5(1)		
20288	Talali	Niger	5(1)		5(1)			20170	Jen-jari	Niger	5(1)		4(2)		5(1)		
20289	Makoufou dousou	Niger	5(1)		5(1)			20171	Bahadua	Niger	5(1)		4(1)		5(1)		
20290	El kressé	Niger	5(1)		5(1)			20172	Lollouli	Niger	5(1)		4(2)		5(1)		
20291	Hahadi	Niger	5(1)		5(1)			20173	Agjilchi	Niger	5(1)		4(2)		5(1)		
20292	Bahadua	Niger	5(1)		5(1)			20174	Hagoutou	Niger	5(1)		5(2)		5(1)		
20293	Tawazé	Niger	5(1)		5(1)			20175	Kiamatoukou	Niger	5(1)		4(2)		5(1)		
20294	El boudjo trua	Niger	5(1)		5(1)			20176	Talferki	Niger	5(1)		5(1)				
20295	Bahadua	Niger	5(1)		5(1)			20177	Souf	Niger	5(1)		5(2)		5(1)		
20296	Hahadi	Niger	5(1)		5(1)			20178	Hagoutou	Niger	5(1)		5(1)				
20297	Mota	Niger	5(1)		5(1)		5(1)	20179	Jen-jari	Niger	5(1)		5(2)		5(1)		
20298	Talali	Niger	5(1)		5(1)			20180	Motou-el-koussé	Niger	5(1)		5(1)				
20299	Bahadua	Niger	5(1)		5(1)			20181	Jen-jari	Niger	5(1)		5(1)				
20300	Lalla	Niger	5(1)		5(1)			20182	Jen-jari	Niger	5(1)		5(2)		5(1)		
20301	El bazanga	Niger	5(1)		5(1)			20183	Koussé benzou	Niger	5(1)		4(1)		5(1)		
20302	Hagoutou	Niger	5(1)		5(1)			20184	Mota	Niger	5(1)		4(2)		5(1)		
20303	Jen-jari	Niger	5(1)		5(1)			20185	Mota	Niger	5(1)		4(2)		5(1)		
20304	Edoukoussé	Niger	5(1)		5(1)		5(1)	20186	Koussé	Niger	5(1)		4(2)		5(1)		
20305	Talali	Niger	5(1)		4(2)		5(1)	20187	Mota fara	Niger	5(1)		4(2)		5(1)		
20306	Boussou	Niger	5(1)		5(1)			20188	Jen-jari	Niger	5(1)		4(1)		5(1)		
20307	Doussé	Niger	5(1)		5(1)			20189	Talali	Niger	5(1)		4(1)		4(2)		
20308	Fara dawo	Niger	5(1)		4(2)		5(1)	20190	Jen-jari	Niger	5(1)		4(1)		5(1)		

IS No	Alternative accession identifier	Source country	AF					IS No	Alternative accession identifier	Source country	AF				
			R	PR	DRS	LFS	DR				R	PR	DRS	LFS	DR
20191	Doum kelim	Niger	511	-	467	561	-	20473	Amo kotte	Niger	511	-	472	-	
20192	Beguba	Niger	511	-	412	-	513	20174	Amo kotte	Niger	511	-	462	-	
20193	Jen jen rousou	Niger	511	-	421	-	517	20475	Amo kotte	Niger	511	-	462	-	
20194	Maga	Niger	511	-	313	-	462	20176	Nikumbhe	Niger	511	-	511	-	
20195	Aloua	Niger	512	-	375	-	563	20477	Amo kotte	Niger	511	-	511	-	
20196	Amo kotte	Niger	512	-	375	-	563	20478	Amo kotte	Niger	511	-	373	-	
20197	Jen jen	Niger	512	-	373	-	563	20479	Nikumbhe	Niger	511	-	511	-	
20198	Amo kotte	Niger	512	-	462	-	513	20480	Nikumbhe	Niger	511	-	472	-	
20199	Aloua	Niger	511	-	421	-	462	20481	Amo kotte	Niger	511	-	472	-	
20200	Jen jen	Niger	511	-	421	-	511	20482	Amo kotte	Niger	511	-	472	-	
20201	Jen jen	Niger	511	-	421	-	511	20483	Magagge	Niger	511	-	511	-	
20202	Tagnou rou mou	Niger	511	-	462	-	511	20484	Amo kotte	Niger	201	-	472	-	
20203	Jen jen	Niger	511	-	462	-	511	20485	Dawa ju	Niger	511	-	472	-	
20204	Ajebitchi	Niger	511	-	462	-	511	20486	Amo kotte	Niger	511	-	472	-	
20205	Bissangou	Niger	511	-	462	-	511	20487	Amo kotte	Niger	511	-	472	-	
20206	Doua-koumbi	Niger	511	-	373	-	511	20488	Amo kotte	Niger	511	-	472	-	
20207	Imou/banchou	Niger	511	-	373	-	511	20489	Amo kotte	Niger	201	-	472	-	
20208	Jen jen	Niger	512	-	373	-	511	20490	Amo kotte	Niger	511	-	472	-	
20209	Falaba	Niger	511	-	373	-	511	20491	Amo kotte	Niger	511	-	472	-	
20210	Mou	Niger	511	-	421	-	511	20492	Amo kotte	Niger	511	-	472	-	
20211	Enoua	Niger	511	-	421	-	511	20493	Amo kotte	Niger	511	-	472	-	
20212	Ajebitchi	Niger	511	-	373	-	511	20494	Amo kotte	Niger	511	-	511	-	
20213	Mou/Bedoukennou	Niger	511	-	373	-	511	20495	Sakoumbi	Niger	511	-	511	-	
20214	Jen jen	Niger	511	-	421	-	511	20496	Koum ba	Niger	511	-	511	-	
20215	Talafou	Niger	511	-	462	-	511	20497	Cygnonou	Niger	511	-	511	-	
20216	Doua	Niger	511	-	462	-	511	20498	Ahara-oukoulou	Niger	511	-	373	-	
20217	Talafou	Niger	511	-	421	-	511	20499	PN 4017	Swidan	511	-	511	-	
20218	Boungou	Niger	511	-	471	-	511	20500	PN 4018	Swidan	511	-	511	-	
20219	Amo kotte	Niger	511	-	471	-	511	20501	PN 4019	Swidan	511	-	472	-	
20220	Aloua	Niger	511	-	511	-	511	20502	PN 4106	Swidan	511	-	472	-	
20221	Nikumbhe	Niger	511	-	511	-	511	20503	PN 4113	Swidan	511	-	472	-	
20222	Kessoua-Ingoua	Niger	511	-	511	-	511	20504	PN 4152	Swidan	511	-	472	-	
20223	Mala	Niger	511	-	511	-	511	20505	PN 4205	Swidan	511	-	472	-	
20224	Akoulé	Niger	511	-	511	-	511	20506	PN 1179	Swidan	511	-	462	-	
20225	Doua-koumbi	Niger	511	-	462	-	511	20507	PN 4209	Swidan	511	-	462	-	
20226	Makoukoyou	Niger	511	-	441	-	-	20508	PN 4288	Swidan	511	-	562	-	
20227	Koussou-Ingoua	Niger	511	-	511	-	-	20509	PN 4281	Swidan	511	-	472	-	
20228	Makoukou	Niger	511	-	511	-	-	20510	PN 4288	Swidan	511	-	472	-	
20229	Koussou-Ingoua	Niger	511	-	511	-	-	20511	PN 4296	Swidan	511	-	472	-	
20230	Mala-Ingoua	Niger	511	-	373	-	511	20512	PN 4296	Swidan	511	-	511	-	
20231	Fata-fata	Niger	511	-	462	-	511	20513	PN 4301	Swidan	511	-	472	-	
20232	Nikumbhe	Niger	511	-	462	-	511	20514	PN 4177	Swidan	511	-	472	-	
20233	Nikumbhe	Niger	511	-	511	-	511	20515	PN 4304	Swidan	511	-	511	-	
20234	Nantjeou-Ingoua	Niger	512	-	511	-	-	20516	PN 4317	Swidan	511	-	472	-	
20235	Mala-ja	Niger	512	-	511	-	-	20517	PN 4311	Swidan	511	-	472	-	
20236	Makou-koumbi	Niger	511	-	511	-	-	20518	PN 4419	Swidan	511	-	472	-	
20237	Koussou-Ingoua	Niger	511	-	511	-	-	20519	PN 4406	Swidan	511	-	511	-	
20238	Akoulé	Niger	511	-	511	-	-	20520	PN 4478	Swidan	511	-	472	-	
20239	Fata-dawa	Niger	512	-	511	-	511	20521	PN 4287	Swidan	511	-	511	-	
20240	Koussou-Ingoua	Niger	511	-	511	-	-	20522	PN 4515	Swidan	511	-	472	-	
20241	Nikumbhe	Niger	472	-	461	-	511	20523	PN 4543	Swidan	372	-	511	-	
20242	Doua-fata	Niger	511	-	373	-	511	20524	PN 4556	Swidan	511	-	472	-	
20243	Sakoumbi	Niger	511	-	462	-	511	20525	PN 4559	Swidan	511	-	472	-	
20244	Boungou	Niger	512	-	511	-	511	20526	PN 4574	Swidan	511	-	472	-	
20245	Boungou	Niger	512	-	511	-	-	20527	PN 4580	Swidan	201	-	472	-	
20246	Doua-fata	Niger	511	-	511	-	-	20528	PN 4611	Swidan	511	-	511	-	
20247	Beguba	Niger	511	-	511	-	-	20529	PN 4616	Swidan	511	-	511	-	
20248	Doua	Niger	512	-	511	-	-	20530	PN 4632	Swidan	511	-	511	-	
20249	Nikumbhe	Niger	511	-	511	-	-	20531	PN 4656	Swidan	511	-	511	-	
20250	Amo kotte	Niger	511	-	462	-	511	20532	PN 4655	Swidan	511	-	472	-	
20251	Talafou	Niger	511	-	462	-	511	20533	PN 4656	Swidan	511	-	472	-	
20252	Doua-ja	Niger	511	-	462	-	511	20534	PN 4661	Swidan	511	-	472	-	
20253	Jen jen	Niger	511	-	462	-	511	20535	PN 4677	Swidan	511	-	511	-	
20254	Jen jen	Niger	511	-	462	-	511	20536	PN 4679	Swidan	511	-	472	-	
20255	Jen jen	Niger	511	-	462	-	511	20537	PN 4774	Swidan	511	-	472	-	
20256	Amo kotte	Niger	511	-	421	-	511	20538	PN 4744	Swidan	511	-	472	-	
20257	Talafou	Niger	511	-	462	-	562	20539	PN 4761	Swidan	511	-	472	-	
20258	Koussou-Ingoua	Niger	511	-	462	-	562	20540	PN 4771	Swidan	511	-	472	-	
20259	Fata-ja	Niger	511	-	511	-	511	20541	PN 4776	Swidan	511	-	472	-	
20260	Ahara	Niger	511	-	462	-	511	20542	PN 4814	Swidan	511	-	472	-	
20261	Boungou	Niger	511	-	462	-	511	20543	PN 4819	Swidan	511	-	472	-	
20262	Amo kotte	Niger	511	-	511	-	511	20544	PN 4846	Swidan	511	-	472	-	
20263	Boungou	Niger	511	-	511	-	511	20545	PN 4847	Swidan	511	-	472	-	
20264	Doua-ja	Niger	511	-	462	-	511	20546	PN 4861	Swidan	511	-	472	-	
20265	Talafou	Niger	512	-	462	-	511	20547	PN 4867	Swidan	511	-	472	-	
20266	Koussou-Ingoua	Niger	512	-	462	-	511	20548	PN 4867	Swidan	511	-	472	-	
20267	Jen jen	Niger	511	-	462	-	511	20549	PN 4868	Swidan	511	-	472	-	
20268	Amo kotte	Niger	511	-	462	-	511	20550	PN 4916	Swidan	511	-	472	-	
20269	Amo kotte	Niger	511	-	462	-	511	20551	PN 4965	Swidan	511	-	511	-	
20270	Amo kotte	Niger	511	-	462	-	511	20552	PN 4966	Swidan	511	-	511	-	
20271	Goussou-Ingoua	Niger	511	-	511	-	-	20553	PN 4981	Swidan	511	-	511	-	
20272	Amo kotte	Niger	511	-	462	-	-	20554	PN 5033	Swidan	511	-	511	-	

IS No	Alternate accession identification	Source country	SF			SR			IS No	Alternate accession identifier	Source country	SI			SD			MI			FR
			R	PR	HA	LS	DR	UR				R	PR	DMTS	LUS	UR	FR	R	PR	DMTS	
20355	PN 5036	Sudan	5/11	5/11	5/11	-	-	21640	HFW 025	USA	5/11	-	-	5/11	-	-	5/11	-	-	-	-
20356	PN 5038	Sudan	5/11	4/21	4/21	5/11	5/11	20641	HFW 036	USA	5/11	-	-	4/21	-	-	5/11	-	-	-	-
20357	PN 5043	Sudan	5/11	5/11	5/11	-	-	20647	HFW 051	USA	4/21	-	-	5/11	-	-	5/11	-	-	-	-
20358	PN 5050	Sudan	5/11	5/11	5/11	-	-	20648	HFW 056	USA	5/11	2/11	1/20	5/11	-	-	5/11	-	-	2/21	-
20359	PN 5055	Sudan	5/11	5/11	5/11	-	-	20649	HFW 058	USA	5/11	-	-	4/21	-	-	5/11	-	-	-	-
20360	PN 5057	Sudan	5/11	5/11	5/11	-	-	20653	HFW 063	USA	5/11	-	-	4/21	-	-	5/11	-	-	-	-
20361	PN 5069	Sudan	5/11	4/21	4/21	5/11	5/11	20649	HFW 057	USA	5/11	-	-	4/21	-	-	5/11	-	-	-	-
20362	PN 5073	Sudan	5/11	5/11	5/11	-	-	20647	HFW 057	USA	5/11	-	-	4/21	-	-	5/11	-	-	-	-
20363	PN 5074	Sudan	5/11	4/21	4/21	5/11	5/11	20648	HFW 059	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20364	PN 5087	Sudan	5/11	5/11	5/11	-	-	20649	HFW 064	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20365	PN 5117	Sudan	5/11	5/11	5/11	-	-	20650	HFW 020	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20366	PN 5120	Sudan	5/11	5/11	5/11	-	-	20653	HFW 126	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20367	PN 5129	Sudan	5/11	5/21	5/11	-	-	20652	HFW 130	USA	5/21	-	-	5/11	-	-	5/21	-	-	5/21	-
20368	PN 5134	Sudan	4/21	4/11	5/11	5/11	5/11	20654	HFW 378	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20369	PN 5151	Sudan	5/11	5/11	4/11	-	-	20651	HFW 027	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20370	PN 5152	Sudan	5/11	5/11	5/11	-	-	20657	HFW 038	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20371	PN 5156	Sudan	5/11	5/11	5/21	-	-	20657	HFW 274	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/21	-
20372	PN 5161	Sudan	5/11	4/21	4/21	-	-	20653	HFW 237	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/21	-
20373	PN 5162	Sudan	5/11	4/21	4/11	5/11	5/11	20658	HFW 413	USA	5/11	-	-	3/21	-	-	5/11	-	-	5/11	-
20374	PN 5164	Sudan	5/11	5/11	5/11	-	-	20660	HFW 409	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20375	PN 5167	Sudan	5/11	5/21	5/21	-	-	20663	HFW 515	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20376	PN 5176	Sudan	5/11	5/21	5/11	5/11	5/11	20662	HFW 511	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20377	PN 5181	Sudan	5/11	4/21	4/11	5/11	5/11	20641	HFW 044	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20378	PN 5194	Sudan	5/11	5/21	5/21	-	-	20664	HFW 052	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20379	Tab 7	Sudan	5/11	5/11	5/11	-	-	20665	HFW 185	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20380	Tabar	Sudan	5/11	5/11	5/21	-	-	20667	HFW 405	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/21	-
20381	Tabar	Sudan	5/11	5/11	5/21	-	-	20668	HFW 408	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20382	Station of Ibrahim	Sudan	5/11	5/21	5/21	-	-	20669	HFW 407	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20383	PN 6000	Sudan	5/11	5/11	5/11	-	-	20669	HFW 183	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20384	PN 6010	Sudan	5/11	5/21	4/11	5/11	5/11	20630	HFW 153	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20385	PN 6041	Sudan	5/11	4/11	5/21	-	-	20631	HFW 78	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20386	PN 6043	Sudan	5/11	4/21	4/21	5/11	5/11	20632	HFW 152	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20387	PN 6040	Sudan	5/11	4/21	4/21	5/11	5/11	20631	HFW 023	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/21	-
20388	PN 6058	Sudan	5/11	4/21	5/11	5/11	5/11	20631	HFW 011	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20389	PN 6059	Sudan	5/11	4/21	5/21	5/11	5/11	20635	HFW 099	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20390	PN 6060	Sudan	5/11	5/21	5/11	5/11	5/11	20636	HFW 099	USA	5/11	-	-	5/21	-	-	5/11	-	-	5/11	-
20391	PN 6025	Sudan	5/11	4/11	4/21	-	-	20637	HFW 090	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20392	PN 6121	Sudan	5/11	4/21	4/21	5/11	5/11	20638	HFW 068	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20393	PN 6143	Sudan	5/11	4/21	4/21	5/11	5/11	20639	HFW 125	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20394	PN 6341	Sudan	5/11	4/21	4/21	5/11	5/11	20640	HFW 051	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20395	PN 6147	Sudan	5/11	4/21	4/11	5/11	5/11	20641	HFW 029	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20396	PN 6164	Sudan	5/11	5/11	5/11	-	-	20642	HFW 238	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/21	-
20397	PN 6265	Sudan	5/11	5/21	5/11	-	-	20643	HFW 34	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20398	PN 6176	Sudan	5/11	5/21	4/21	5/11	5/11	20643	HFW 54	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/21	-
20399	PN 6183	Sudan	5/11	5/11	5/21	-	-	20645	HFW 41	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20400	PN 6188	Sudan	5/11	5/21	5/11	-	-	20646	HFW 110	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20401	PN 6195	Sudan	5/11	4/11	5/11	-	-	20647	HFW 141	USA	5/11	-	-	5/21	-	-	5/11	-	-	5/11	-
20402	PN 6227	Sudan	5/11	4/21	4/11	5/11	5/11	20648	HFW 165	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20403	PN 6282	Sudan	5/11	4/21	4/21	5/11	5/11	20649	HFW 236	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20404	PN 6588	Sudan	5/11	4/21	4/11	5/11	5/11	20650	HFW 256	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20405	PN 6590	Sudan	5/11	4/21	4/21	5/11	5/11	20651	HFW 351	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20406	PN 6324	Sudan	5/11	4/21	4/21	5/11	5/11	20652	HFW 436	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20407	PN 6333	Sudan	5/11	4/21	4/11	5/11	5/11	20654	HFW 384	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/21	-
20408	Yuan-Hou No. 2-11	China	5/11	4/21	5/21	-	-	20644	HFW 42	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20409	Yuan-Hou	China	5/11	4/21	4/21	-	-	20645	HFW 41	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/21	-
20410	Hou-Tang No. 7	China	5/11	4/21	5/21	-	-	20646	HFW 301	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20411	Hou-Tang No. 8	China	5/11	4/21	5/11	-	-	20647	HFW 310	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20412	Yuan-Yu 2047	China	5/11	4/21	4/21	-	-	20648	HFW 177	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20413	Sweet sorghum	China	5/11	4/21	5/21	-	-	20649	HFW 267	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20414	HFW 752	USA	5/11	5/11	5/11	-	-	20700	HFW 900	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20415	HFW 753	USA	5/11	5/11	5/11	-	-	20701	HFW 247	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20416	HFW 762	USA	5/11	5/11	4/21	5/11	5/11	20702	HFW 496	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20417	HFW 750	USA	5/11	5/11	5/11	-	-	20703	HFW 207	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20418	HFW 769	USA	5/11	5/11	5/11	-	-	20704	HFW 126	USA	5/11	-	-	4/11	-	-	5/11	-	-	5/11	-
20419	HFW 746	USA	5/11	4/11	4/11	5/11	5/11	20705	HFW 247	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20420	HFW 741	USA	5/11	5/11	5/11	-	-	20706	HFW 434	USA	5/11	-	-	4/21	-	-	5/11	-	-	5/11	-
20421	HFW 624	USA	5/11	5/11	5/11	-	-	20707	HFW 208	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20422	HFW 751	USA	5/11	5/11	5/11	-	-	20708	HFW 44	USA	5/11	5/11	5/21	5/11	-	-	5/11	-	-	5/11	-
20423	HFW 704	USA	5/11	5/21	5/21	-	-	20709	HFW 228	USA	5/11	-	-	5/11	-	-	5/11	-	-	5/11	-
20424	HFW 749	USA	5/11	5/21	4/11	-	-	20710	HFW 316	USA	5/11	-	-	5/21	-	-	5/11	-	-	5/11	-
20425	HFW 704	USA	5/11	5/11	5/11	-	-	20711	HFW 308	USA	5/11	-	-	5/21	-	-	5/11	-	-	5/11	-
20426	HFW 676	USA	5/11	5/11	5/11	-	-	20712	HFW 107	USA	5/11	-	-	4/11</							

IS No	Alternate accession	Source country	R					IS No	Alternate accession	Source country	R				
			PR	DR	SR	MR	TR				PR	DR	SR	MR	TR
20600	HD 350	Angola	5(1)		5(1)			20673	Oliva	Kenya	5(1)		1(2)	1(1)	1(1)
20601	HD 280	Kenya	5(1)		5(1)			20674	Sabina	Kenya	5(1)		3(5)	1(1)	
20602	HD 301	Burkina	5(1)					20675	Sissal tennial	Kenya	4(1)		3(5)	1(1)	
20603	HD 281	Kenya	5(1)					20676	Kakaba	Kenya	5(2)		1(2)	1(1)	
20604	HD 356	Chad	5(1)		5(2)	5(1)		20677	Bovum tree	Kenya	5(1)		5(2)	1(1)	
20605	HD 358	Chad	5(1)		5(1)			20678	Bovum	Kenya	4(1)		2(2)	1(1)	
20606	HD 359	Chad	5(1)		5(1)			20679	Nakababu (tree)	Kenya	5(1)		4(1)	5(1)	
20607	HD 366	Chad	5(1)		5(1)			20680	Nakababu (tree)	Kenya	4(1)		1(2)	3(1)	
20608	HD 371	Chad	5(1)		5(1)			20681	Vickhumbi	Kenya	4(2)		3(5)	1(1)	
20609	HD 372	Chad	5(1)		5(1)			20682	Nakhalo	Kenya	5(1)		4(5)	1(1)	
20610	HD 374	Chad	5(1)		5(1)			20683	Ninawapere	Kenya	5(1)		1(2)	1(1)	
20611	HD 375	Chad	5(1)		5(2)			20684	Sabina	Kenya	4(1)		3(5)	1(1)	
20612	HD 381	Chad	5(1)		5(1)			20685	Nakababu	Burkina	5(1)		3(5)	1(1)	
20613	HD 361	Chad	5(1)					20686	Bahamba	Kenya	5(1)		3(5)	1(1)	
20614	HD 364	Chad	5(1)					20687	Oliva	Kenya	5(1)		2(2)	1(1)	
20615	PI 282342	Chad	5(1)		4(2)	1(1)		20688	No 48799	Kenya	5(1)		3(2)	1(2)	
20616	PI 282342	Chad	5(1)		3(2)	1(1)		20689	Imanavelle	Kenya	5(1)		3(2)	1(2)	
20617	HD 443	Tahiti	5(1)		5(2)	3(2)		20690	Emuaua	Kenya	5(1)		3(2)	1(1)	
20618	HD 428	Tahiti	5(1)		5(2)			20691	Oholei	Kenya	4(1)		4(2)	1(1)	
20619	HD 431	Tahiti	5(1)		5(1)			20692	Flatare	Kenya	5(1)		2(2)	1(1)	
20620	HD 435	Tahiti	5(1)		5(1)			20693	Netimo	Kenya	4(1)		1(2)	1(1)	
20621	HD 436	Tahiti	5(1)		5(2)			20694	Oliva	Kenya	4(1)		3(1)	1(1)	
20622	HD 437	Tahiti	5(1)		5(1)			20695	No 48820	Kenya	5(1)		1(2)	1(1)	
20623	HD 438	Tahiti	5(1)		5(1)			20696	Oliva	Kenya	5(1)		4(2)	1(1)	
20624	HD 439	Tahiti	5(1)		5(2)	4(3)		20697	Sabina	Kenya	4(2)		4(2)	1(1)	
20625	HD 457	Tahiti	5(1)		5(2)			20698	Kumitia	Kenya	4(1)		2(2)	1(1)	
20626	HD 458	Tahiti	5(1)		4(2)			20699	Nakababulo	Kenya	4(2)		3(2)	1(1)	
20627	HD 461	Tahiti	5(1)		3(1)			20700	No 48817	Kenya	5(1)		3(2)	1(1)	
20628	HD 462	Tahiti	5(1)		5(1)			20701	No 48818	Kenya	5(1)		3(2)	1(1)	
20629	HD 468	Tahiti	5(1)		5(1)			20702	Sabina	Kenya	5(1)		3(2)	1(1)	
20630	HD 470	Tahiti	4(1)		5(1)			20703	Nakhalo	Kenya	5(1)		3(2)	1(1)	
20631	HD 471	Tahiti	4(1)		5(1)			20704	Nakhalo	Kenya	3(1)		1(2)	1(1)	
20632	HD 474	Tahiti	5(1)		5(2)			20705	Oliva (shrub)	Kenya	3(1)		1(2)	1(1)	
20633	HD 475	Tahiti	4(1)		3(1)			20706	No 48823	Kenya	5(1)		4(5)	1(2)	
20634	HD 478	Tahiti	5(1)		5(2)			20707	Imanavelle	Kenya	5(1)		2(2)	1(2)	
20635	NS 3869	Tahiti	5(1)			5(1)		20708	No 48826	Kenya	5(1)		3(5)	1(1)	
20636	NS 3871	Tahiti	5(1)		5(2)			20709	Sabina	Kenya	5(1)		4(5)	1(1)	
20637	HDW 416	Tahiti	5(2)		5(1)	5(1)		20710	Nakababulo	Kenya	5(1)		2(1)	1(1)	
20638	HDW 423	Tahiti	5(2)		5(1)			20711	Flakumbi	Kenya	5(1)		1(2)	1(1)	
20639	HDW 430	Tahiti	5(1)		5(1)			20712	Sabina	Kenya	4(1)		4(4)	1(1)	
20640	HDW 432	Tahiti	5(1)		3(2)			20713	Nakhalo	Kenya	4(2)		1(2)	1(1)	
20641	HDW 440	Tahiti	5(1)		5(1)	4(1)		20714	Emuaua	Kenya	5(1)		2(2)	1(1)	
20642	HDW 444	Tahiti	4(1)		5(1)			20715	Sabina	Kenya	3(1)		2(1)	1(1)	
20643	HDW 446	Tahiti	5(1)		5(1)			20716	Flakumbi	Kenya	5(1)		2(1)	1(1)	
20644	HDW 450	Tahiti	5(1)		5(1)			20717	Sabina	Kenya	4(1)		5(2)	1(1)	
20645	HDW 471	Tahiti	5(1)		5(1)	4(1)		20718	Nakababulo	Kenya	4(1)		3(1)	1(1)	
20646	HDW 479	Tahiti	5(2)		5(1)			20719	Sabina	Kenya	4(2)		4(5)	1(1)	
20647	PI 394852	Tahiti	5(2)		5(1)			20720	Nakababulo	Kenya	3(2)		4(5)	1(1)	
20648	PI 2 66318	Tahiti	5(1)					20721	Sabina	Kenya	5(1)		4(5)	1(1)	
20649	PI 129800	Tahiti	5(1)					20722	Wessau	Kenya	4(2)		4(1)	1(2)	
20650	PI 140253	Tahiti	5(1)			5(1)	5(1)	20723	Oliva	Kenya	4(1)		2(1)	1(2)	
20651	SA 1188	Tahiti	5(1)					20724	Nakababulo	Kenya	5(1)		5(2)	4(5)	
20652	WV 214	Tahiti	5(1)		2(2)	1(1)		20725	Ninawapere	Kenya	5(1)		4(5)	1(1)	
20653	PI 208581	India	5(2)	4(1)	2(1)	3(1)	5(1)	20726	Nakhalo	Kenya	5(1)		4(5)	1(1)	
20654	PI 267594	India	5(1)		3(2)	3(1)	5(1)	20727	Oliva	Kenya	5(1)		4(2)	1(2)	
20655	PI 267585	India	5(1)		3(2)	1(1)	5(1)	20728	Sabina	Kenya	5(1)		4(5)	1(2)	
20656	HD 303	Indonesia	4(1)		4(1)	5(1)		20729	Sabina	Kenya	5(1)		1(2)	1(1)	
20657	HD 531	Indonesia	5(1)		4(1)	5(2)		20730	Oliva	Kenya	5(1)		2(2)	1(1)	
20658	HD 532	Indonesia	4(2)		3(2)	5(2)		20731	Sissal	Kenya	5(1)		2(1)	1(1)	
20659	HD 533	Indonesia	4(1)		5(2)	4(1)		20732	Sabina	Kenya	5(1)		2(2)	1(1)	
20660	HD 529	Indonesia	4(2)		3(1)			20733	Nakhalo	Kenya	5(1)		2(1)	1(1)	
20661	HD 535	Indonesia	4(2)		4(1)	4(1)		20734	Nakhalo	Kenya	5(1)		2(1)	1(2)	
20662	HD 542	Indonesia	4(2)		4(1)	4(2)		20735	Imuani	Kenya	5(1)		1(2)	1(1)	
20663	HD 545	Indonesia	5(1)		5(2)			20736	Nakhalo	Kenya	5(1)		1(2)	1(2)	
20664	HD 547	Indonesia	5(1)		5(1)			20737	Flakumbi	Kenya	4(1)		2(1)	1(2)	
20665	HDW 561	Indonesia	5(1)		4(1)	5(2)		20738	Nakhalo	Kenya	5(1)		1(2)	1(1)	
20666	HDW 539	Indonesia	5(1)		4(1)	5(1)		20739	Sabina	Kenya	5(1)		1(2)	1(2)	
20667	HDW 534	Indonesia	5(1)		3(1)	3(2)	4(1)	20740	Nakhalo	Kenya	4(2)		1(2)	1(2)	
20668	HDW 565	Indonesia	5(1)		4(1)	5(1)		20741	Nakhalo	Kenya	4(2)		3(2)	1(1)	
20669	NS 1207	Indonesia	5(1)		4(1)	5(1)		20742	Mogera	Kenya	4(2)		4(2)	1(1)	
20670	HDW 447	Japan	5(1)		4(2)	5(2)		20743	Flakumbi	Kenya	4(1)		2(2)	1(1)	
20671	Imuani	Kenya	5(1)		4(2)	4(1)	4(1)	20744	Ninawapere	Kenya	4(2)		3(5)	1(1)	
20672	Oliva	Kenya	5(1)		1(1)	2(1)		20745	No 48871	Kenya	3(2)		3(2)	1(1)	
20673	No 48765	Kenya	5(1)		4(3)	5(1)	5(1)	20746	No 48872	Kenya	3(2)		3(2)	1(1)	
20674	Omyotis	Kenya	5(1)		1(2)	1(1)		20747	Nakhalo	Kenya	4(2)		1(2)	1(1)	
20675	Nakababulo	Kenya	4(2)		2(1)	1(1)	3(1)	20748	Emuaua	Kenya	5(1)		2(1)	1(1)	
20676	No 48769	Kenya	5(1)		3(2)			20749	Flakumbi	Kenya	5(1)		3(4)	1(1)	
20677	Nyababulo	Kenya	5(1)		1(2)	1(1)	4(1)	20750	Takumbi	Kenya	4(1)		4(5)	1(1)	
20678	Nakhalo	Kenya	5(1)		3(2)	1(1)		20751	No 48876	Kenya	5(1)		3(2)	1(1)	
20679	No 48778	Kenya	4(1)		3(1)	1(1)	5(1)	20752	Flakumbi	Kenya	5(1)		3(5)	1(1)	
20680	No 48787	Kenya	4(2)		4(5)	1(1)		20753	Sabina	Kenya	5(1)		3(2)	1(1)	

IS No	Alternate accession	Source country	R					IS No	Alternate accession	Source country	R				
			FR	SF	SB	MD	DR				FR	SF	SB	MD	DR
21055	Sabina	Kenya	5(1)	4(2)	3(3)	4(5)	21137	Chachi tabou	Kenya	5(1)	4(2)	3(3)	4(5)		
21056	Sabina	Kenya	5(1)	4(2)	3(3)	4(5)	21138	Chachi tabou	Kenya	5(1)	4(2)	3(3)	4(5)		
21057	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)	21141	Nyamungu	Kenya	5(1)	4(2)	3(3)	4(5)		
21058	Sabina	Kenya	5(1)	4(2)	3(3)	4(5)	21142	Chachi midlog	Kenya	5(1)	4(2)	3(3)	4(5)		
21059	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)	21143	Oharere	Kenya	5(1)	4(2)	3(3)	4(5)		
21060	Lihawoo	Kenya	5(1)	4(2)	3(3)	4(5)	21144	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21061	Shikoni	Kenya	5(1)	4(2)	3(3)	4(5)	21145	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21062	Indoloni	Kenya	5(1)	4(2)	3(3)	4(5)	21146	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)		
21063	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)	21147	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21064	Indoloni	Kenya	4(1)	4(2)	3(3)	4(5)	21148	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21065	P-kuhoni	Kenya	4(2)	4(2)	3(3)	4(5)	21149	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21066	Chiani	Kenya	4(2)	4(2)	3(3)	4(5)	21150	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21067	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)	21151	Andwo tabou	Kenya	5(1)	4(2)	3(3)	4(5)		
21068	Imbini	Kenya	5(1)	4(2)	3(3)	4(5)	21152	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21069	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21153	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21070	Ohari	Kenya	5(2)	4(2)	3(3)	4(5)	21155	Nyakwaji-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21071	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21156	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)		
21072	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21157	Ekhumini	Kenya	5(1)	4(2)	3(3)	4(5)		
21073	Jagwani	Kenya	5(1)	4(2)	3(3)	4(5)	21158	Magurani-chemba	Kenya	5(1)	4(2)	3(3)	4(5)		
21074	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)	21159	Kinyevyini	Kenya	5(1)	4(2)	3(3)	4(5)		
21075	Amawoo	Kenya	5(2)	4(2)	3(3)	4(5)	21160	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)		
21076	Andwo	Kenya	5(2)	4(2)	3(3)	4(5)	21161	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21077	Ohari	Kenya	4(1)	4(2)	3(3)	4(5)	21162	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21078	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21163	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21079	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21164	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21080	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21165	Chachi tabou	Kenya	5(1)	4(2)	3(3)	4(5)		
21081	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21166	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)		
21082	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21167	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21083	Jagwani	Kenya	5(1)	4(2)	3(3)	4(5)	21168	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21084	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21169	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21085	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21170	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)		
21086	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21171	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21087	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21172	Ohari mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21088	Chachi	Kenya	4(1)	4(2)	3(3)	4(5)	21173	Ohari mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21089	Andwo	Kenya	4(2)	4(2)	3(3)	4(5)	21174	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21090	Np-490-14	Kenya	4(2)	4(2)	3(3)	4(5)	21175	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21091	Nyakwaji	Kenya	4(2)	4(2)	3(3)	4(5)	21176	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)		
21092	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21177	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21093	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21178	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21094	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21179	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)		
21095	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21180	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21096	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21181	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)		
21097	Chachi	Kenya	4(1)	4(2)	3(3)	4(5)	21182	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21098	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21183	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21099	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)	21184	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21100	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21185	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21101	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21186	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21102	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21187	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21103	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21188	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21104	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21189	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21105	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21190	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21106	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21191	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21107	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)	21192	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21108	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21193	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21109	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21194	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21110	Arat	Kenya	5(1)	4(2)	3(3)	4(5)	21195	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21111	Arat	Kenya	5(1)	4(2)	3(3)	4(5)	21196	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21112	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21197	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21113	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21198	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21114	Endyia	Kenya	5(1)	4(2)	3(3)	4(5)	21199	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21115	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)	21200	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21116	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)	21201	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21117	Chachi-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21202	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)		
21118	Chachi-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21203	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21119	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)	21204	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21120	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21205	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21121	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21206	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21122	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)	21207	Andwo	Kenya	5(1)	4(2)	3(3)	4(5)		
21123	Ohari	Kenya	5(1)	4(2)	3(3)	4(5)	21208	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21124	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21209	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21125	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21210	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)		
21126	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)	21211	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21127	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21212	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21128	Nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21213	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)		
21129	Chachi-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21214	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21130	Np-490-14	Kenya	5(1)	4(2)	3(3)	4(5)	21215	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21131	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21216	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21132	Chachi	Kenya	5(1)	4(2)	3(3)	4(5)	21217	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)		
21133	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21218	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21134	Chachi mid-wan	Kenya	5(1)	4(2)	3(3)	4(5)	21219	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21135	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21220	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21136	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21221	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21137	Chachi tabou	Kenya	5(1)	4(2)	3(3)	4(5)	21222	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		
21138	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)	21223	Andwo-nyakwaji	Kenya	5(1)	4(2)	3(3)	4(5)		

IS No	Alternate accession	Source country	SP				SB				MD				IS No	Alternate accession	Source country	SP				SB				MD														
			R	FR	DR	DR	R	FR	DR	DR	R	FR	DR	DR				R	FR	DR	DR	R	FR	DR	DR	R	FR	DR	DR											
21391	HD 413	Iran	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21475	Kashan	Malawi	5(1)	-	-	-	3(5)	(1)	(1)	(2)	5(1)	-	-	-	21476	SAD 286	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21394	HD 290	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21477	SAD 297	Malawi	5(1)	-	-	-	-	-	-	-	5(1)	-	-	-	21478	SAD 290	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21395	HD 239	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21479	SAD 291	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21480	SAD 293	Malawi	5(1)	-	-	-	4(2)	(1)	(1)	(2)
21396	HD 265	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21481	SAD 294	Malawi	5(1)	-	-	-	4(2)	(1)	(1)	(2)	5(1)	-	-	-	21482	SAD 295	Malawi	5(1)	-	-	-	4(2)	(1)	(1)	(2)
21397	HD 260	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21483	SAD 296	Malawi	5(1)	-	-	-	4(2)	(1)	(1)	(2)	5(1)	-	-	-	21484	SAD 297	Malawi	5(1)	-	-	-	4(2)	(1)	(1)	(2)
21398	HD 301	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21485	Tempanjangan	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21486	SAD 312	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21399	HD 311	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21487	SAD 311	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21488	SAD 316	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21400	SAD 7	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21489	SAD 317	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21490	SAD 318	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21401	SAD 16	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21491	SAD 319	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21492	SAD 355	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21402	SAD 17	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21493	SAD 363	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21494	SAD 364	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21403	SAD 30	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21495	SAD 355	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21496	SAD 356	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21404	Kapaluzum	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21497	SAD 365	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21498	SAD 368	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21405	Musile	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21499	SAD 369	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21500	SAD 377	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21406	Bavuluzum	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21501	Shicaba	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21502	Kudonjo	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21407	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21503	Kudonjo	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21504	SAD 392	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21408	SAD 15	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21505	Kudonjo	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21506	Kashan	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21409	SAD 15	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21507	SAD 392	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21508	SAD 393	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21410	Musile	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21509	SAD 394	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21510	SAD 419	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21411	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21511	SAD 419	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21512	SAD 420	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21412	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21513	Kashan	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21514	Kashan	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21413	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21515	Kashan	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21516	Musile	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21414	SAD 7	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21517	SAD 500	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21518	SAD 501	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21415	Kagele	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21519	SAD 501	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21520	SAD 527	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21416	SAD 7	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21521	Musile	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21522	SAD 536	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21417	SAD 79 A	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21523	SAD 530	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21524	SAD 541	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21418	SAD 79 B	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21525	SAD 541	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21526	SAD 544	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21419	SAD 79 B	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21527	SAD 544	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21528	SAD 544	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21420	SAD 88 B	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21529	SAD 600	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21530	SAD 620	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21421	SAD 87	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21531	SAD 621	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21532	SAD 623	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21422	SAD 88	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21533	Musile	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21534	SAD 629	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21423	SAD 88	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21535	Musile	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21536	SAD 630	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21424	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21537	SAD 630	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21538	SAD 631	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21425	Tempanjangan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21539	SAD 631	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21540	SAD 632	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21426	Ndabwa	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21541	SAD 632	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21542	SAD 633	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21427	SAD 110	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21543	SAD 633	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21544	SAD 634	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21428	Kashan	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21545	SAD 634	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21546	SAD 635	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21429	SAD 111	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21547	SAD 635	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21548	SAD 636	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21430	SAD 113	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21549	SAD 636	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21550	SAD 637	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21431	SAD 116	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21551	SAD 637	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21552	SAD 638	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21432	SAD 117	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21553	SAD 638	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21554	SAD 639	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21433	SAD 122	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21555	SAD 639	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21556	SAD 640	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21434	SAD 124	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21557	SAD 640	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21558	SAD 641	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21435	SAD 125	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21559	SAD 641	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21560	SAD 642	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)
21436	SAD 129	Malawi	5(1)	-	-	-	5(1)	-	-	-	5(1)	-	-	-	21561	SAD 642	Malawi	5(1)	-	-	-	3(2)	(1)	(1)	(2)	5(1)	-	-	-	21562	SAD 643	Malawi	5(1)	-	-	-	3(2)	(1		

IS No	Alternate accession identifier	Source country	SI					IS No					Alternate accession identifier	Source country	SF				
			R	PR	DHS	LFS	DR	DR	IS No	Alternate accession identifier	Source country	R			PR	DHS	LFS	DR	DR
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21559	SAD 822	Malawi	5(1)		3(2)	1(1)		21642	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)				
21560	SAD 827	Malawi	5(1)		2(2)	1(1)	5(2)	21643	SAD 107	Malawi	5(1)		3(2)	1(1)	5(2)				
21561	SAD 828 A	Malawi	5(1)		1(2)	1(1)		21644	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)				
21562	SAD 829	Malawi	5(1)		3(1)	1(1)		21645	NAL1908	Malawi	5(1)		3(2)	1(1)	5(2)				
21563	SAD 833 B	Malawi	5(1)		2(2)	1(1)	5(2)	21646	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)				
21564	SAD 833 A	Malawi	5(1)		1(2)	1(1)	5(2)	21647	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21565	SAD 833	Malawi	5(1)		2(2)	1(1)		21648	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21566	SAD 834	Malawi	5(1)		2(2)	1(1)	5(2)	21649	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)				
21567	SAD 834	Malawi	5(1)		2(2)	1(1)		21650	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)				
21567	SAD 837	Malawi	5(1)		2(2)	1(1)		21650	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)				
21568	NAL1898	Malawi	5(1)		4(2)	1(1)	5(2)	21651	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)				
21569	SAD 865	Malawi	5(1)		4(2)	1(1)	5(2)	21652	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)				
21570	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21653	Ndikhwa	Malawi	5(1)		4(2)	1(1)	5(2)				
21571	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21654	Misale	Malawi	5(1)		3(2)	1(1)	5(2)				
21572	SAD 881	Malawi	5(1)		3(2)	1(1)	5(2)	21655	SAD 1008	Malawi	5(1)		2(2)	1(1)	5(2)				
21573	Kashonthe	Malawi	5(1)		3(1)	1(1)	5(2)	21656	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)				
21574	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)	21657	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)				
21575	SAD 872	Malawi	5(1)		3(2)	1(1)	5(2)	21658	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21577	Tengarramanga	Malawi	5(2)		2(2)	1(1)	5(2)	21659	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21578	SAD 893	Malawi	5(1)		3(2)	1(1)	5(2)	21660	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21579	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21662	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21580	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21663	Mshunguzi	Malawi	5(1)		4(2)	1(1)	5(2)				
21581	Misale	Malawi	5(1)		2(2)	1(1)	5(2)	21664	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)				
21582	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21665	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)				
21583	SAD 881	Malawi	5(1)		3(2)	1(1)	5(2)	21666	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21584	SAD 881	Malawi	5(2)		4(2)	1(1)	5(2)	21667	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)				
21585	SAD 881	Malawi	5(2)		3(2)	1(1)	5(2)	21668	Mshunguzi	Malawi	5(1)		5(1)		5(2)				
21586	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21669	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)				
21587	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21670	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21588	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21671	Misale	Malawi	5(1)		3(2)	1(1)	5(2)				
21589	SAD 913	Malawi	5(1)		1(1)	1(1)		21672	Misale	Malawi	5(1)		3(2)	1(1)	5(2)				
21590	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21673	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)				
21591	Ndikhwa	Malawi	5(1)		4(2)	1(1)	5(2)	21674	Ndikhwa	Malawi	5(1)		4(2)	1(1)	5(2)				
21592	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21675	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)				
21593	Kavakavala	Malawi	5(1)		2(2)	1(1)	5(2)	21676	Tengarramanga	Malawi	5(1)		3(4)	1(1)	5(2)				
21594	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21677	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)				
21595	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21678	Tengarramanga	Malawi	5(1)		3(1)		5(2)				
21596	SAD 961	Malawi	5(1)		4(2)	1(1)	5(2)	21679	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)				
21597	Mshunguzi	Malawi	5(1)		3(2)	1(1)	5(2)	21680	SAD 1077	Malawi	5(1)		4(2)	1(1)	5(2)				
21598	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21681	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)				
21599	Misale	Malawi	5(1)		3(2)	1(1)	5(2)	21682	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)				
21600	Misale	Malawi	5(1)		2(2)	1(1)	5(2)	21683	HT 201	Malawi	5(1)		4(2)	1(1)	5(2)				
21601	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21684	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)				
21602	SAD 906	Malawi	5(1)		4(2)	1(1)	5(2)	21685	Tengarramanga	Malawi	5(1)		2(2)	1(1)	5(2)				
21603	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21686	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(1)				
21604	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)	21688	HT 200	Niger	5(1)								
21605	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21689	HT 181	Niger	5(1)								
21606	Kashonthe	Malawi	5(1)		4(2)	1(1)	5(2)	21690	HT 181	Niger	5(1)								
21607	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21692	Unkown	Niger	5(1)				5(2)				
21608	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)	21693	HT 306	Nigeria	5(1)								
21609	Tengarramanga	Malawi	5(1)		3(2)	1(1)	5(2)	21694	HT 207	Nigeria	5(1)								
21610	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)	21695	HT 207	Nigeria	5(1)								
21611	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21697	HT 205	Nigeria	5(1)								
21612	Tengarramanga	Malawi	5(1)		4(2)	1(1)	5(2)	21698	HT 489	Nigeria	5(1)								
21613	SAD 929	Malawi	5(1)		2(2)	1(1)	5(2)	21699	PI 221585	Nigeria	5(1)								
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21615	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)	21701	PI 221617	Nigeria	5(2)								
21616	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21702	PI 221625	Nigeria	5(2)								
21617	Mshunguzi	Malawi	5(1)		3(2)	1(1)	5(2)	21703	PI 221628	Nigeria	5(1)								
21618	SAD 934	Malawi	5(1)		2(2)	1(1)	5(2)	21704	PI 221661	Nigeria	5(2)								
21619	Kashonthe	Malawi	5(1)		2(2)	1(1)	5(2)	21705	PI 221662	Nigeria	5(1)								
21620	Kavakavala	Malawi	5(1)		1(2)	1(1)	5(2)	21707	PI 201591	Nigeria	5(1)								
21621	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)	21708	HT 489	Nigeria	5(1)								
21622	Kavakavala	Malawi	5(1)		4(2)	1(1)	5(2)	21709	N 597	Nigeria	5(1)				5(1)				
21623	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21710	N 617	Nigeria	5(2)				5(1)				
21624	Misale	Malawi	5(1)		4(2)	1(1)	5(2)	21711	M 631	Nigeria	5(2)				5(1)				
21625	Shabalala	Malawi	5(1)		3(2)	1(1)	5(2)	21712	N 662	Nigeria	5(2)				5(1)				
21626	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)	21713	SC 1208 106	Ghana	5(1)				5(1)				
21627	Kashonthe	Malawi	5(1)		1(2)	1(1)	5(2)	21714	SC 1209 106	Ghana	5(1)								
21628	Misale	Malawi	5(1)		1(2)	1(1)	5(2)	21715	SC 1210 106	Ghana	5(1)								
21629	Ndikhwa	Malawi	5(1)		1(2)	1(1)	5(2)	21717	PI 308120	South Africa	5(1)				5(2)				
21630	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)	21718	HT 241	Senegal	5(1)								
21631	Misale	Malawi	5(1)		1(2)	1(1)	5(2)	21720	HT 244	Senegal	5(1)								
21632	Kavakavala	Malawi	5(1)		3(2)	1(1)	5(2)	21721	HT 246	Senegal	5(1)								
21633	Ndikhwa	Malawi	5(1)		3(2)	1(1)	5(2)	21722	HT 250	Senegal	5(1)								
21634	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)	21723	HT 251	Senegal	5(1)								
21635	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)	21724	HT 228	Senegal	5(1)								
21636	Misale	Malawi	5(1)		1(2)	1(1)	5(2)	21725	Collection 240	Sudan	5(1)				5(2)				
21637	Ndikhwa	Malawi	5(1)		4(2)	1(1)	5(2)	21727	Collection 240	Sudan	5(1)				5(2)				
21638	Kashonthe	Malawi	5(1)		3(2)	1(1)	5(2)	21728	Collection 267	Sudan	5(1)				5(2)				
21639	Ndikhwa	Malawi	5(1)		2(2)	1(1)	5(1)	21729	Collection 267	Sudan	5(1)				5(2)				

IS No	Alternate accession identifier	Sender country	NF					IS No					Alternate accession identifier	Source country
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21730	Collection 446	Sudan	512	512	512	512	21817	Bacia P/16 Origin 16	Sudan	511	-	512	512	-
21731	Collection 509	Sudan	411	-	411	511	21818	Alind 611/16	Sudan	511	-	512	512	-
21732	Collection 549	Sudan	512	-	512	511	21819	Alind 6166	Sudan	511	-	512	512	-
21733	Collection 556	Sudan	513	-	513	513	21820	Alind 6245	Sudan	511	-	512	512	-
21734	Collection 557	Sudan	513	-	513	512	21821	Alind 6262	Sudan	511	-	512	512	-
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21736	Collection 585	Sudan	513	511	511	512	21823	Alind 6270	Sudan	511	-	512	512	-
21737	Collection 570	Sudan	513	-	513	512	21824	648 B	Sudan	511	-	512	512	-
21738	Collection 604	Sudan	512	-	512	513	21825	1005 B	Sudan	511	-	512	512	-
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21741	Collection 616	Sudan	411	-	511	512	21828	CK 11-13-B	Sudan	511	-	512	512	-
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21743	Collection 1034	Sudan	513	-	513	512	21832	1013 B	Sudan	511	-	512	512	-
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21759	6226-WM 77-W-78	Sudan	511	-	512	512	21850	1013 306	Sudan	511	-	512	512	-
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21761	6076-WM 77-W-21	Sudan	511	-	512	512	21852	1013W 422	Sudan	511	-	512	512	-
21762	6069-WM 77-W-32	Sudan	511	-	512	512	21853	1013W 425	Sudan	511	-	512	512	-
21763	6105-WM 77-W-33	Sudan	511	-	512	512	21854	1013W 209	Sudan	511	-	512	512	-
21764	6110-WM 77-W-34	Sudan	511	-	512	512	21855	1013W 221	Sudan	511	-	512	512	-
21765	6115-WM 77-W-35	Sudan	511	-	512	512	21856	1013W 272	Sudan	511	-	512	512	-
21766	6117-WM 77-W-36	Sudan	511	-	512	512	21857	1013W 276	Sudan	511	-	512	512	-
21767	6181-WM 77-W-37	Sudan	511	-	512	512	21858	91 21840	Sudan	511	-	512	512	-
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21771	6149-WM 77-W-30	Sudan	511	-	512	512	21862	1013W 307	Sudan	511	-	512	512	-
21772	6143-WM 77-W-48	Sudan	511	-	512	512	21863	1013W 090	Sudan	511	-	512	512	-
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21776	6234-WM 77-W-104	Sudan	511	-	512	512	21867	NS 6094	Sudan	511	-	512	512	-
21777	6306-WM 77-W-108	Sudan	511	-	512	512	21868	NS 6095	Sudan	511	-	512	512	-
21778	6276-WM 77-W-109	Sudan	511	-	512	512	21869	TX 2162	Sudan	511	-	512	512	-
21779	6313-WM 77-W-111	Sudan	511	-	512	512	21870	TX 2163	Sudan	511	-	512	512	-
21780	6323-WM 77-W-112	Sudan	512	-	512	512	21871	TX 2164	Sudan	511	-	512	512	-
21781	6337-WM 77-W-113	Sudan	513	-	512	512	21872	TX 2165	Sudan	511	-	512	512	-
21782	6326-WM 77-W-114	Sudan	513	-	512	512	21873	TX 2166	Sudan	511	-	512	512	-
21783	6334-WM 77-W-115	Sudan	511	-	512	512	21874	TX 2167	Sudan	511	-	512	512	-
21784	6337-WM 77-W-116	Sudan	512	-	512	512	21875	TX 2168	Sudan	511	-	512	512	-
21785	6349-WM 77-W-117	Sudan	511	-	512	512	21876	TX 2170	Sudan	511	-	512	512	-
21786	6354-WM 77-W-118	Sudan	513	-	512	512	21877	TX 2171	Sudan	511	-	512	512	-
21787	WM 77-W-101	Sudan	513	-	512	512	21878	TX 2172	Sudan	511	-	512	512	-
21788	WM 77-W-108	Sudan	513	-	512	512	21879	TX 2173	Sudan	511	-	512	512	-
21789	WM 77-W-110	Sudan	511	-	512	512	21880	TX 2175	Sudan	511	-	512	512	-
21790	WM 77-W-106	Sudan	511	-	512	512	21881	TX 2176	Sudan	511	-	512	512	-
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21821	WM 77-W-154	Sudan	511	-	512	512	21912	TX 2207	Sudan	511	-	512	512	-
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21823	WM 77-W-156	Sudan	511	-	512	512	21914	TX 2209	Sudan	511	-	512	512	-
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21825	WM 77-W-158	Sudan	511	-	512	512	21916	TX 2211	Sudan	511	-	5		

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21905	IRAW 472	USA	5(1)		1(1)					21906	ABM 58	India	5(1)									
21906	IRAW 480	USA	5(1)		1(1)					21909	ABM 65	India	5(1)		1(1)	1(1)						
21907	IRAW 484	USA			3(2)	3(2)				21910	PR 420	India	5(1)									
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21909	IRAW 542	USA	5(1)		3(2)	1(1)	3(1)			21912	PR 420	India	5(1)									3(2)
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22074	Kashmir jala	India	-	-	2764	1111	5431	-	-	2747	Ekransel	India	-	-	2747	1111	5431	-	-		
22075	Kashmir jala	India	-	-	2766	1111	5431	-	-	2748	Ekransel	India	-	-	2748	1111	5431	-	-		
22076	Kempu kesari	India	-	-	-	-	5429	-	-	2749	Ekransel	India	-	-	-	-	5431	1111	5431		
22077	Surya linaula	India	-	-	2521	1011	5431	-	-	2760	Kanagari jala	India	-	-	-	-	5431	1111	5431		
22078	Surya linaula	India	-	-	452	1011	5431	-	-	2761	Garganget	India	-	-	-	-	5431	1111	5431		
22079	Gida dimma jala	India	-	-	3531	1011	5431	-	-	2762	A. nesum	India	-	-	-	-	1011	1111	5431		
22080	Gida dimma jala	India	-	-	2121	1011	5431	-	-	2763	Kempu jala	India	-	-	-	-	-	-	5429		
22081	Nandyal jala	India	-	-	2521	1021	5431	-	-	2764	Kempu jala	India	-	-	-	-	5431	1111	5431		
22082	Kempu jala	India	-	-	3531	2111	4641	-	-	2765	Garganget	India	-	-	-	-	5431	1111	5431		
22083	Nandyal jala	India	-	-	1111	1111	4641	-	-	2766	Bowari jala	India	-	-	-	-	5429	1111	5431		
22084	Kempu jala	India	-	-	1121	1031	5431	-	-	2767	Kempu jala	India	-	-	-	-	-	-	5431		
22085	Mandali jala	India	-	-	1121	1031	5431	-	-	2768	Bowari jala	India	-	-	-	-	5431	1111	5431		
22086	Gida dimma jala	India	-	-	1121	1031	5431	-	-	2769	Kempu jala	India	-	-	-	-	5431	1111	5431		
22087	Nandyal	India	-	-	3721	1331	5431	-	-	2770	Bowari jala	India	-	-	-	-	5429	1111	5431		
22088	Nandyal jala	India	-	-	3531	1111	5431	-	-	2771	Kanagari jala	India	-	-	-	-	-	-	5431		
22089	Ranchal jala	India	-	-	3531	1111	5431	-	-	2772	Mungari jala	India	-	-	-	-	-	-	5431		
22090	Ranchal jala	India	-	-	2121	1011	5431	-	-	2773	Mungari jala	India	-	-	-	-	-	-	5431		
22091	Surya linaula	India	-	-	3091	1011	5431	5431	-	2774	Giddanget	India	-	-	-	-	2771	1111	5431		
22092	Kempu jala	India	-	-	-	-	4641	-	-	2775	Giddanget jala	India	-	-	-	-	1121	1031	5431		
22093	Surya linaula	India	-	-	3531	1021	5431	-	-	2776	Giddanget jala	India	-	-	-	-	2771	1111	5431		
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22095	Bhogapat	India	-	-	3531	1111	5431	-	-	2778	Kashmir jala	India	-	-	-	-	3531	1031	5431		
22096	Mandali	India	-	-	3531	1111	5431	-	-	2779	Bili mangari	India	-	-	-	-	3531	1031	5431		
22097	Kempu jala	India	-	-	3531	1111	5431	-	-	2780	Bhogapat	India	-	-	-	-	3531	1031	5431		
22098	Kempu jala	India	-	-	3531	1111	5431	-	-	2781	Uval khairi pawa	India	-	-	-	-	3531	1031	5431		
22099	Ayaskalata	India	-	-	3531	1111	5431	-	-	2782	Bhogapat	India	-	-	-	-	3531	1031	5431		
22100	Ajla jala	India	-	-	-	-	5421	-	-	2783	Pechi jala	India	-	-	-	-	3531	1111	5431		
22101	Ajla jala	India	-	-	-	-	5421	-	-	2784	Vatadi jala	India	-	-	-	-	1121	1031	5431		
22102	Bhogapat	India	-	-	3531	1111	5431	-	-	2785	Pechi jala	India	-	-	-	-	3531	1031	5431		
22103	Nandyal	India	-	-	3531	1111	5431	-	-	2786	Vera-saura	India	-	-	-	-	3531	1111	5431		
22104	Khandal	India	-	-	-	-	5421	-	-	2787	Tella soupa	India	-	-	-	-	4111	1031	5431		
22105	Ranchal jala	India	-	-	3531	1031	5431	-	-	2788	Pechi jala	India	-	-	-	-	3531	1111	5431		
22106	Mandali	India	-	-	3531	1111	5431	-	-	2789	Ajla jala	India	-	-	-	-	-	-	5431		
22107	Mandali	India	-	-	3531	1111	5431	-	-	2790	Pechi jala	India	-	-	-	-	3531	1031	5431		
22108	Mandali	India	-	-	2811	1011	5431	-	-	2791	Bhogapat	India	-	-	-	-	3531	1031	5431		
22109	Mandali	India	-	-	3531	1111	5431	-	-	2792	Sadag jala	India	-	-	-	-	3531	1031	5431		
22110	Kempu jala	India	-	-	3531	1111	5431	-	-	2793	Alina jala	India	-	-	-	-	3531	1031	5431		
22111	Kempu jala	India	-	-	2721	1021	5431	-	-	2794	Alina jala	India	-	-	-	-	1101	3011	5431		
22112	Sadag mandali	India	-	-	2721	1021	5431	-	-	2795	S. 2. 1. 1. 1.	USA	-	-	-	-	-	-	8111		
22113	Sadag mandali	India	-	-	2721	1031	5431	-	-	2796	S.H. 905	USA	-	-	-	-	3531	1031	5431		
22114	Mungari bilo jala	India	-	-	1011	1011	3431	5431	-	2797	S.B. 3034	USA	-	-	-	-	-	-	8111		
22115	Mandali jala	India	-	-	-	-	5421	-	-	2798	Saga valite	USA	-	-	-	-	1021	1031	5431		
22116	Mandali jala	India	-	-	2721	1021	5431	-	-	2799	Bhogapat	USA	-	-	-	-	3531	1031	5431		
22117	Ranchal jala	India	-	-	3531	1111	5431	-	-	2800	S. 320-6	USA	-	-	-	-	-	-	8111		
22118	Kandali jala	India	-	-	3531	1031	5431	-	-	2801	P. 321	USA	-	-	-	-	1121	1031	5431		
22119	Kempu jala	India	-	-	2721	1031	5431	-	-	2802	U.S. 45. 1. 20	USA	-	-	-	-	3531	1031	5431		
22120	Gida dimma jala	India	-	-	2721	1031	5431	-	-	2803	I.A.M. 2624	USA	-	-	-	-	3531	1031	5431		
22121	Nandi mandali	India	-	-	1011	1011	5431	5431	-	2804	I.A.M. 2625	USA	-	-	-	-	3531	1031	5431		
22122	Kandali jala	India	-	-	1121	1031	5431	-	-	2805	I.A.M. 2626	USA	-	-	-	-	3531	1031	5431		
22123	Kandali jala	India	-	-	1121	1031	5431	-	-	2806	I.A.M. 2630	USA	-	-	-	-	3531	1031	5431		
22124	Kandali jala	India	-	-	1121	1031	5431	-	-	2807	I.A.M. 2630	USA	-	-	-	-	3531	1031	5431		
22125	Kandali jala	India	-	-	3531	1031	5431	-	-	2808	I.A.M. 2630	USA	-	-	-	-	1021	1031	5431		
22126	Alina jala	India	-	-	3531	1111	5431	5431	-	2809	I.A.M. 2631	USA	-	-	-	-	1121	1031	5431		
22127	Sadag mandali	India	-	-	3531	1111	5431	-	-	2810	I.A.M. 2632	USA	-	-	-	-	1111	1031	5431		
22128	Gida dimma jala	India	-	-	3531	1111	5431	-	-	2811	I.A.M. 2633	USA	-	-	-	-	-	-	8111		
22129	Gida dimma jala	India	-	-	2721	1011	5431	-	-	2812	I.A.M. 2721	USA	-	-	-	-	3531	1031	5431		
22130	Gida dimma jala	India	-	-	2721	1011	5431	-	-	2813	Ukraine	Russia & CIS	-	-	-	-	-	-	8111		
22131	Sadag mandali	India	-	-	3531	1011	5431	-	-	2814	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22132	PG 122	India	-	-	2721	1011	5431	-	-	2815	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22133	Bhogapat local	India	-	-	3531	1031	5431	-	-	2816	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22134	Shubal	India	-	-	-	-	3112	-	-	2817	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22135	Khandali mandali	India	-	-	1021	1111	5431	-	-	2818	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22136	Khandali mandali	India	-	-	3531	1111	5431	-	-	2819	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22137	Chalo jala	India	-	-	3531	1111	5431	-	-	2820	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22138	Chalo jala	India	-	-	3531	1111	5431	-	-	2821	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22139	Gida dimma jala	India	-	-	1121	1111	5431	-	-	2822	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22140	Bowari jala	India	-	-	3531	1111	5431	-	-	2823	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22141	Kempu jala	India	-	-	1121	1111	5431	-	-	2824	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22142	Nar jala	India	-	-	3531	1111	5431	-	-	2825	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22143	Khandali local	India	-	-	2721	1011	5431	-	-	2826	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22144	Khandali local	India	-	-	2721	1011	5431	-	-	2827	Ukraine	Russia & CIS	-	-	-	-	3531	1031	5431		
22145	Khandali local	India	-	-	2721	1011	5431	-	-	2828	Ukraine										

IS No	Alternate accession identifier	Source country	Source country				IS No	Alternate accession identifier	Source country	Source country					
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22242	Phagocytin	Bolivia	429	111	521		22242	Sida	Bolivia						511
22243	Redund	Bolivia	429	111	521		22243	Saba	Bolivia			421	111	521	
22244	PM 41	Bolivia	429	111	521		22244	PMK 132	Bolivia			421	111	521	
22245	PM 12	Bolivia	429	111	521		22245	Sophywin	Bolivia			421	111	521	
22246	PM 13	Bolivia	429	111	521		22246	PMK 154	Bolivia			421	111	521	
22247	Margipant	Bolivia	429	111	521		22247	PMK 136	Bolivia						511
22248	PM 45	Bolivia	429	111	521		22248	Sigulwin	Bolivia			421	111	521	
22249	PM 16	Bolivia	429	111	521		22249	Kanye	Bolivia			421	111	521	
22250	PM 17	Bolivia	429	111	521		22250	Swerid	Bolivia			421	111	521	
22251	PM 38	Bolivia	429	111	521		22251	Murapunt	Bolivia			421	111	521	
22252	PM 39	Bolivia	429	111	521		22252	Kanye	Bolivia			421	111	521	
22253	PM 40	Bolivia	429	111	521		22253	Taya	Bolivia			421	111	521	
22254	PM 41	Bolivia	429	111	521		22254	PSA 104	Bolivia			421	111	521	
22255	PM 42	Bolivia	429	111	521		22255	PSA 103	Bolivia			421	111	521	
22256	Sepulone	Bolivia	429	111	521		22256	PSA 106	Bolivia			211	211	521	
22257	PM 45	Bolivia	429	111	521		22257	Sigulwin	Bolivia			211	211	521	
22258	PM 46	Bolivia	429	111	521		22258	PSA 104	Bolivia			311	311	521	
22259	Taya	Bolivia	429	111	521		22259	PSA 109	Bolivia			121	111	521	
22260	PM 39	Bolivia	429	111	521		22260	Aylin chikun	Bolivia			611	211	521	
22261	PM 50	Bolivia	429	111	521		22261	Sepulone	Bolivia			311	211	521	511
22262	PM 51	Bolivia	429	111	521		22262	Sepulone	Bolivia			411	311	521	
22263	Sepulone	Bolivia	429	111	521		22263	Tunite	Bolivia			111	111	521	
22264	Makurana	Bolivia	429	111	521		22264	Tunite	Bolivia			421	211	521	
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22267	Kanye	Bolivia	429	111	521		22267	Phyphane	Bolivia			421	211	521	
22268	Kanye	Bolivia	429	111	521		22268	Sufake	Bolivia			421	111	521	
22269	Rugay	Bolivia	429	111	521		22269	R-D Dwarf	Bolivia			121	111	521	
22270	Rugay	Bolivia	429	111	521		22270	Sepulone	Bolivia			311	111	521	
22271	Porta	Bolivia	429	111	521		22271	Murapunt mandal	Bolivia			311	311	521	111
22272	PMK 39	Bolivia	429	111	521		22272	R-D Dwarf	Bolivia			211	211	521	
22273	Novopit	Bolivia	429	111	521		22273	Kanye standard	Bolivia			111	111	521	
22274	Makurana	Bolivia	429	111	521		22274	Murapunt standard	Bolivia			211	111	521	111
22275	PMK 81	Bolivia	429	111	521		22275	Phyphane	Bolivia			421	111	521	
22276	PMK 81	Bolivia	429	111	521		22276	Phyphane	Bolivia			211	111	521	
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22279	Laga glamo wazhiti	Bolivia	429	111	521		22279	Mugud alwin	Bolivia			421	111	521	
22280	Sepulone	Bolivia	429	111	521		22280	Tup 22	Bolivia			421	111	521	
22281	Argemone	Bolivia	429	111	521		22281	Wad kamla	Bolivia			421	111	521	
22282	Swerid	Bolivia	429	111	521		22282	Amburina	Bolivia			421	111	521	
22283	Rugay	Bolivia	429	111	521		22283	Peterth ayaya	Bolivia			311	111	521	
22284	PMK 95	Bolivia	429	111	521	111	22284	Peterth ayaya	Bolivia			311	111	521	
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22287	PMK 98	Bolivia	429	111	521		22287	Peterth ayaya	Bolivia			421	111	521	
22288	Sadokata	Bolivia	429	111	521	111	22288	Peterth ayaya	Bolivia			421	111	521	
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22297	PMK 114	Bolivia	429	111	521		22297	Dabab-handi	Bolivia			421	111	521	
22298	Kesay-Berna	Bolivia	429	111	521		22298	Sadokata	Bolivia			421	111	521	
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22310	PMK 128	Bolivia	429	111	521		22310	Makurana	Bolivia			421	111	521	
22311	Nekalun	Bolivia	429	111	521		22311	Makurana	Bolivia			421	111	521	
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22316	PMK 135	Bolivia	429	111	521		22316	PMK 135	Bolivia			421	111	521	
22317	Sepulone	Bolivia	429	111	521		22317	PMK 135	Bolivia			421	111	521	
22318	Nyite	Bolivia	429	111	521		22318	PMK 135	Bolivia			421	111	521	
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22322	PMK 147	Bolivia	429	111	521		22322	PMK 147	Bolivia			421	111	521	
22323	PMK 148	Bolivia	429	111	521		22323	PMK 148	Bolivia			421	111	521	

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22409	Duhar	Sudan			1121	1411	5111				22494	A-43-A	Sudan							2521	1111	5011			
22410	Wad akher	Sudan			1121	1414	4149				22495	A-43-B	Sudan							2522	1411	5011			
22411	Wad akher	Sudan			1121	1411	5121				22496	A-102-A	Sudan							2523	1411	5011			
22412	Wad akher	Sudan			1121	1411	5121				22497	A-109-A	Sudan							2524	1411	5011			
22413	PIA 91-1	Sudan			1121	1411	5121				22498	A-69-B	Sudan							2525	1411	5011			
22414	PIA 92-2	Sudan			1121	1411	4121				22499	A-102-A	Sudan							2526	1411	5011			
22415	PIA 93-2	Sudan			1421	1111					22500	A-108-A	Sudan							2527	1411	5011			
22416	Wadyahay	Sudan			1131	1111	5131				22501	A-114-A	Sudan							2528	1111	5011			
22417	Dhodran	Sudan			1451	1111	5131				22502	A-119-A	Sudan							2529	1411	5011			
22418	Dindran	Sudan			2121	1411	5121				22503	A-133-A	Sudan							2530	1411	5011			
22419	PIA 101-2	Sudan			1451	1411	5111				22504	A-144-A	Sudan							2531	1411	5011			
22420	PIA 103-1	Sudan			1451	1411					22505	A-139-A	Sudan							2532	1411	5011	5111		
22421	Wad rumbah	Sudan			1451	1411	5111				22506	A-160-A	Sudan							2533	1411	5011			
22422	Kang	Sudan			2121	1411					22507	A-164-A	Sudan							2534	1411	5011			
22423	PIA 106-1	Sudan			1421	1411					22508	A-164-B	Sudan							2535	1411	5011			
22424	PIA 107-2	Sudan			1451	1411					22509	A-168-A	Sudan							2536	1411	5011			
22425	Kang	Sudan			1421						22510	A-186-A	Sudan							2537	1411	5011			
22426	PIA 111-2	Sudan			1421	1411					22511	A-187-A	Sudan							2538	1411	5011			
22427	PIA 112-1	Sudan			1421	1411					22512	A-190-A	Sudan							2539	1411	5011			
22428	PIA 114-2	Sudan			1421	1411					22513	A-201-A	Sudan							2540	1411	5011			
22429	PIA 123-1	Sudan			1421	1411					22514	A-206-A	Sudan							2541	1411	5011			
22430	PIA 136-1	Sudan			1411						22515	A-210-A	Sudan							2542	1411	5011			
22431	Zangadi	Sudan			1111	1111	5131				22516	A-216-A	Sudan							2543	1411	5011			
22432	Tibou-ahay	Sudan			2121	1111	5131				22517	A-217-A	Sudan							2544	1411	5011			
22433	Tibou-ahay	Sudan			2121	1111	5111				22518	A-222-A	Sudan							2545	1411	5011			
22434	Tibou-ahay	Sudan			2121	1411	5111				22519	A-222-B	Sudan							2546	1411	5011			
22435	Tibou-ahay	Sudan			1121	1411	5111				22520	A-222-C	Sudan							2547	1411	5011			
22436	Raghibat al-sayid	Sudan			1121	1411	5111				22521	A-226-A	Sudan							2548	1411	5011			
22437	Raghibat al-sayid	Sudan			1121	1411	5111				22522	A-226-B	Sudan							2549	1411	5011			
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22442	Magnitese	Sudan			1421	1411					22527	A-741-B	Sudan							2554	1411	5011			
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22444	Tebuk ahay	Sudan			1421	1411					22529	A-241-B	Sudan							2556	1411	5011			
22445	Tebuk ahay	Sudan			1421	1411	5111				22530	A-246-A	Sudan							2557	1411	5011			
22446	Tebuk ahay	Sudan			1421	1411	5111				22531	A-263-A	Sudan							2558	1411	5011	4121		
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22449	PIA 112-1	Sudan			1421	1411	5111				22534	A-208-B	Sudan							2561	1411	5011			
22450	Zerazra	Sudan			1421	1411	5111				22535	A-216-A	Sudan							2562	1411	5011	5131		
22451	Kadim-el-hayman	Sudan			1421	1411	5111				22536	A-292-A	Sudan							2563	1411	5011			
22452	Duhar	Sudan			1421	1411	5111				22537	A-749-A	Sudan							2564	1411	5011			
22453	Zerazra	Sudan			1421	1411	5111				22538	A-799-A	Sudan							2565	1411	5011			
22454	Zerazra	Sudan			1421	1411	5111				22539	A-816-A	Sudan							2566	1411	5011			
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22456	PIA 144-1	Sudan			1421	1411	5111				22541	A-284-A	Sudan							2568	1411	5011			
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22459	Zerazra	Sudan			1421	1411	5111				22544	A-809-A	Sudan							2571	1411	5011			
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22467	Zerazra	Sudan			1421	1411	5111				22552	A-169-A	Sudan							2579	1411	5011			
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22469	Zerazra	Sudan			1421	1411	5111				22554	A-180-A	Sudan							2581	1411	5011			
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22478	Duhar	Sudan			1421	1411	4121				22563	A-410-A	Sudan							2590	1411	5011			
22479	Duhar	Sudan			1421	1411	4121				22564	A-410-B	Sudan							2591	1411	5011			
22480	Peerita	Sudan			1421	1411	5121				22565	A-418-A	Sudan							2592	1411	5011			
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IS No	Alternate accession identification	Source country	IS					IS No	Alternate accession identification	Source country	IS					HB	
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22756	DRM 06-2	Sri Lanka	-	-	2/2	2/1	4/2	22843	S 44	Sri Lanka	-	-	-	-	4/2	1/1	-
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22758	DRM 09	Sri Lanka	-	-	2/2	2/1	2/2	22847	S 46	Sri Lanka	-	-	-	-	2/2	1/1	-
22759	DRM 11	Sri Lanka	-	-	2/2	1/1	2/1	22848	S 46	Sri Lanka	-	-	-	-	2/2	1/1	-
22760	DRM 11-1	Sri Lanka	-	-	2/2	1/1	-	22849	S 48	Sri Lanka	-	-	-	-	2/2	1/1	-
22761	DRM 22	Sri Lanka	-	-	-	-	3/1	22850	S 49	Sri Lanka	-	-	-	-	2/2	1/1	-
22762	American sugarcane	Sri Lanka	-	-	3/2	2/1	5/1	22851	S 49-1	Sri Lanka	-	-	-	-	2/2	1/1	-
22763	American sugarcane	Sri Lanka	-	-	-	-	2/2	22853	S 51	Sri Lanka	-	-	-	-	2/2	1/1	-
22764	DRM 24	Sri Lanka	-	-	0/1	2/1	2/2	22854	S 51	Sri Lanka	-	-	-	-	2/2	1/1	-
22765	DRM 24-1	Sri Lanka	-	-	1/2	1/1	4/2	22855	S 52	Sri Lanka	-	-	-	-	2/2	1/1	-
22766	DRM 26	Sri Lanka	-	-	0/1	2/1	4/1	22856	S 54	Sri Lanka	-	-	-	-	2/2	1/1	-
22767	DRM 27	Sri Lanka	-	-	2/2	2/1	1/2	22857	S 54 A	Sri Lanka	-	-	-	-	2/2	1/1	-
22768	DRM 27-1	Sri Lanka	-	-	-	-	1/2	22858	S 54 B	Sri Lanka	-	-	-	-	2/2	1/1	-
22769	DRM 30	Sri Lanka	-	-	2/2	1/1	2/2	22859	S 55	Sri Lanka	-	-	-	-	2/2	1/1	-
22770	DRM 30-1	Sri Lanka	-	-	0/1	2/1	4/2	22860	S 56	Sri Lanka	-	-	-	-	2/2	1/1	4/2
22771	DRM 61	Sri Lanka	-	-	2/1	2/1	2/2	22861	S 56	Sri Lanka	-	-	-	-	2/2	1/1	-
22772	DRM 81 A	Sri Lanka	-	-	4/1	1/1	2/1	22862	S 57	Sri Lanka	-	-	-	-	2/2	1/1	2/1
22773	DRM 85	Sri Lanka	-	-	2/2	1/2	4/2	22863	S 57-1	Sri Lanka	-	-	-	-	2/2	1/1	-
22774	DRM 85-1	Sri Lanka	-	-	2/2	2/1	4/2	22864	S 58	Sri Lanka	-	-	-	-	0/1	1/1	4/2
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22776	DRM 87-1	Sri Lanka	-	-	-	-	3/2	22866	S 60	Sri Lanka	-	-	-	-	2/2	1/1	-
22777	DRM 88	Sri Lanka	-	-	2/2	1/1	4/1	22867	S 61	Sri Lanka	-	-	-	-	2/2	1/1	-
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22780	DRM 90	Sri Lanka	-	-	2/2	1/1	4/1	22870	S 63	Sri Lanka	-	-	-	-	2/2	1/1	-
22781	DRM 92	Sri Lanka	-	-	2/2	1/2	2/2	22871	S 64	Sri Lanka	-	-	-	-	2/2	1/1	2/1
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22783	Shamane	Sri Lanka	-	-	1/2	1/1	2/2	22875	S 68	Sri Lanka	-	-	-	-	2/2	1/1	-
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22794	DRM 102	Sri Lanka	-	-	2/2	1/1	2/1	22888	S 91	Sri Lanka	-	-	-	-	2/2	1/1	-
22795	DRM 103	Sri Lanka	-	-	1/1	1/1	2/2	22889	S 94	Sri Lanka	-	-	-	-	2/2	1/1	-
22796	DRM 104	Sri Lanka	-	-	0/1	1/1	4/1	22890	S 95	Sri Lanka	-	-	-	-	2/2	1/1	-
22797	DRM 104-1	Sri Lanka	-	-	2/2	1/1	4/1	22892	S 97	Sri Lanka	-	-	-	-	2/2	1/1	-
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22800	DRM 107	Sri Lanka	-	-	0/1	1/1	2/2	22897	S 1	Sri Lanka	-	-	-	-	2/2	1/1	-
22801	S 1	Sri Lanka	-	-	2/2	1/1	-	22898	S 2	Sri Lanka	-	-	-	-	2/2	1/1	2/1
22802	S 2	Sri Lanka	-	-	0/1	2/1	2/2	22899	S 4	Sri Lanka	-	-	-	-	2/2	1/1	-
22803	S 3	Sri Lanka	-	-	0/1	1/1	2/2	22900	S 1	Sri Lanka	-	-	-	-	1/1	1/1	-
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22806	S 7	Sri Lanka	-	-	0/1	1/1	2/2	22903	S 8	Sri Lanka	-	-	-	-	2/2	1/1	-
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22815	S 15	Sri Lanka	-	-	0/1	1/1	-	22910	S 19	Sri Lanka	-	-	-	-	2/2	1/1	2/1
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22819	S 17-1	Sri Lanka	-	-	0/1	1/1	-	22912	S 21	Sri Lanka	-	-	-	-	2/2	1/1	-
22820	S 18	Sri Lanka	-	-	0/1	1/1	-	22913	S 22	Sri Lanka	-	-	-	-	2/2	1/1	-
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22835	S 32-A	Sri Lanka	-	-	2/2	1/1	2/1	22925	S 33	Sri Lanka	-	-	-	-	2/2	1/1	-
22836	S 33	Sri Lanka	-	-	2/2	1/1	-	22926	S 34	Sri Lanka	-	-	-	-	2/2	1/1	-
22837	S 33	Sri Lanka	-	-	2/2	1/1	2/1	22927	S 36	Sri Lanka	-	-	-	-	2/2	1/1	-
22838	S 35	Sri Lanka	-	-	0/1	1/1	-	22928	S 37	Sri Lanka	-	-	-	-	2/2	1/1	-
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22840	S 37	Sri Lanka	-	-	2/2	1/1	-	22930	S 40-A	Sri Lanka	-	-	-	-	2/2	1/1	-
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23019	K 117	Sudan	-	-	021	011	011	-	25104	K 123	Sudan	-	-	021	011	-
23020	K 118	Sudan	-	-	021	011	011	-	25105	K 124	Sudan	-	-	021	011	-

IS No	Alternate accession identifier	Source country	SF		SB		MD	HM	IS No	Alternate accession identifier	Source country	SF		SB		MD	HM
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21107	CER-S 58	Tanzania	-	-	362	011	-	-	21201	ZM 76	Zambia	-	-	371	011	-	-
21108	CER-S 59	Tanzania	-	-	362	011	301	-	21202	Chibumba	Zambia	-	-	381	011	-	-
21109	Udo	Tanzania	-	-	362	011	-	-	21203	Yumbuyu	Zambia	-	-	401	011	-	-
21110	Udo	Tanzania	-	-	362	011	-	-	21204	ZM 86	Zambia	-	-	42	011	-	-
21111	Udo	Tanzania	-	-	362	011	-	-	21205	Mafelenetu	Zambia	-	-	101	011	-	-
21112	CER-S 67	Tanzania	-	-	362	011	-	-	21206	ZM 91	Zambia	-	-	2121	011	-	-
21114	Phupuluhi	Tanzania	-	-	362	011	-	-	21207	ZM 92	Zambia	-	-	45	011	-	-
21115	Lunga-leraga	Tanzania	-	-	362	011	-	-	21208	ZM 93	Zambia	-	-	1121	011	-	-
21117	CER-S 79	Tanzania	-	-	2121	011	-	-	21209	ZM 95	Zambia	-	-	2121	011	-	-
21118	CER-S 82	Tanzania	-	-	362	011	-	-	21210	ZM 97	Zambia	-	-	4821	011	-	-
21119	CER-S 83	Tanzania	-	-	362	011	-	-	21211	ZM 98	Zambia	-	-	1121	011	-	-
21120	CER-S 85	Tanzania	-	-	362	011	-	-	21212	ZM 101	Zambia	-	-	2121	011	-	-
21121	Udo-imidwiler	Tanzania	-	-	362	011	-	-	21213	ZM 102	Zambia	-	-	2121	011	-	-
21122	CER-S 87	Tanzania	-	-	362	011	-	-	21214	ZM 103	Zambia	-	-	362	011	-	-
21123	Udo-ya-wida	Tanzania	-	-	2121	011	-	-	21215	Migale	Zambia	-	-	1421	011	-	-
21124	CER-S 90	Tanzania	-	-	362	011	-	-	21216	Mumpanga	Zambia	-	-	2921	011	-	-
21125	Uhemba	Tanzania	-	-	362	011	-	-	21217	Zeki (Kekari)	Zambia	-	-	301	011	301	301
21127	Mima	Tanzania	-	-	362	011	-	-	21218	Chombonyayala	Zambia	-	-	3821	011	-	-
21128	I-gamba	Tanzania	-	-	362	011	-	-	21219	Vakwaka	Zambia	-	-	3621	011	-	-
21129	I-gamba	Tanzania	-	-	362	011	-	-	21220	Mumpanga	Zambia	-	-	451	011	-	-
21130	MFR 24	Tanzania	-	-	362	011	-	-	21221	Kabungu	Zambia	-	-	921	011	-	-
21131	MFR 25	Tanzania	-	-	362	011	-	-	21222	Zeki	Zambia	-	-	921	011	-	-
21132	Uhemba	Tanzania	-	-	362	011	-	-	21223	Mumpanga	Zambia	-	-	921	011	-	-
21133	MFR 34	Tanzania	-	-	362	011	-	-	21224	Zeki	Zambia	-	-	921	011	-	-
21134	MFR 35	Tanzania	-	-	362	011	-	-	21225	Migale	Zambia	-	-	2121	011	-	-
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21136	Hemba-hemba	Tanzania	-	-	362	011	-	-	21227	ZM 238	Zambia	-	-	42	011	-	-
21137	Sansu-gu	Tanzania	-	-	1121	011	-	-	21228	ZM 241	Zambia	-	-	3721	011	-	-
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21139	Mima	Tanzania	-	-	362	011	-	-	21230	ZM 245	Zambia	-	-	2121	011	-	-
21140	Ugungu	Tanzania	-	-	362	011	-	-	21231	ZM 246	Zambia	-	-	3621	011	-	-
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21143	Mama-mwape	Tanzania	-	-	1121	011	-	-	21244	ZM 266	Zambia	-	-	2121	011	-	-
21144	MFR 58	Tanzania	-	-	362	011	-	-	21255	ZM 361	Zambia	-	-	925	011	-	-
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21149	Unguba	Tanzania	-	-	362	011	-	-	21259	ZM 365	Zambia	-	-	3621	011	-	-
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21152	Lunga-leraga I-hoak	Tanzania	-	-	2121	011	-	-	21262	ZM 382	Zambia	-	-	3621	011	-	-
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21155	Lunga-leraga	Tanzania	-	-	362	011	-	-	21245	Zeki	Zambia	-	-	921	011	-	-
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21168	Hemba-hemba	Tanzania	-	-	362	011	-	-	21257	ZM 328	Zambia	-	-	1121	011	-	-
21169	Mama	Tanzania	-	-	362	011	-	-	21258	Zeki	Zambia	-	-	3621	011	-	-
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IS No.	Alternate accession identifier	Source country	SI				RLD		IS No.	Alternate accession identifier	Source country	SI				RLD	
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23294	ZM 415	Zambia	-	-	162	1011	-	-	23386	A. 208-2	Nigeria	-	-	502	1011	-	-
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23372	ZM 968	Zambia	-	-	321	1011	-	-	23460	SPV 248	India	-	-	301	1011	-	-
23373	Nyaho	Zambia	-	-	321	1011	-	-	23461	SPV 249	India	-	-	301	1011	-	-
23374	Msalu	Zambia	-	-	321	1011	-	-	23462	SPV 251	India	-	-	301	1011	-	-
23375	ZM 991	Zambia	-	-	301	1011	-	-	23463	SPV 251	India	-	-	301	1011	-	-
23376	ZM 991b	Zambia	-	-	301	1011	-	-	23464	SPV 251	India	-	-	301	1011	-	-

IS No	Alternative accession	Source country	SI				IS No				Alternative accession	Source country	SI			
			R	PR	DRS	DR	R	PR	DRS	DR			R	PR	DRS	DR
23637	Identifera	Guatemala					23757	STASG 134								
23638	RT-25	Guatemala					23721	STASG 135								
23639	Breast tickle	Guatemala					23724	STASG 136								
23640	Dybis fly	Guatemala					23726	STASG 137								
23641	Chitogan	Guatemala					23726	STASG 138								
23642	Banai baali	Guatemala					23729	STASG 139								
23643	Chungu	Guatemala					23729	STASG 140								
23644	Huayco	Guatemala					23730	STASG 141								
23645	Wendeh	Guatemala					23730	STASG 142								
23646	Wendeh	Guatemala					23730	STASG 143								
23647	Wendeh	Guatemala					23731	STASG 144								
23648	Turka	Guatemala					23732	STASG 145								
23649	Turka	Guatemala					23733	STASG 147								
23650	Turka	Guatemala					23734	STASG 148								
23651	Turka	Guatemala					23735	STASG 149								
23652	Kime wilting	Guatemala					23736	STASG 150								
23653	Stomi ke	Guatemala					23737	STASG 151								
23654	Nyati Lu	Guatemala					23738	Karanga wagh								
23655	Buax	Guatemala					23739	Palangona zentata								
23656	Buaxi	Guatemala					23740	Wag. yod-Ahuax								
23657	Fela	Guatemala					23741	Pavon-poa peltata								
23658	Haxi	Guatemala					23742	ME A 11								
23659	Haxi	Guatemala					23743	Hellia in rubiginosa								
23660	Shaw ferns	Guatemala					23744	Mangu angu. litor								
23661	Bombax hook	Guatemala					23745	Zinnia corno hilare								
23662	Turka	Guatemala					23746	Karanga naltanga								
23663	Nahu	Guatemala					23747	Var. kumaha								
23664	Wendeh	Guatemala					23748	W. laguna zentata								
23665	Natac	Guatemala					23749	MW 80-1								
23666	Wendeh	Guatemala					23750	MW 80-11								
23667	Kukuu nyang	Guatemala					23751	MW 80-18								
23668	Dunkoung wilting	Guatemala					23752	MW 80-32								
23669	Dunkoung kusa	Guatemala					23753	MW 80-53								
23670	Kime wilting	Guatemala					23754	MW 80-60								
23671	Kime Loya	Guatemala					23755	MW 80-167								
23672	Kime Loya	Guatemala					23756	MW 80-183								
23673	Kime wilting	Guatemala					23760	MW 80-232								
23674	Buaxi kulu	Guatemala					23761	MW 80-241								
23675	Buaxi	Guatemala					23763	MW 80-254								
23676	Nikau kulu	Guatemala					23764	MW 80-254								
23677	Mele	Mozambique					23765	MW 80-440								
23678	Mele	Mozambique					23766	MW 80-451								
23679	Mele	Mozambique					23767	MW 80-459								
23680	Mele	Mozambique					23768	MW 80-460								
23681	Mele	Mozambique					23769	MW 80-469								
23682	Mele	Mozambique					23770	MW 80-471								
23683	Mele	Mozambique					23771	MW 80-482								
23684	Mele	Mozambique					23772	MW 80-483								
23685	Mele	Mozambique					23773	MW 80-484								
23686	Mele	Mozambique					23774	MW 80-485								
23687	Mele	Mozambique					23775	MW 80-486								
23688	Mele	Mozambique					23776	MW 80-487								
23689	Mele	Mozambique					23777	MW 80-488								
23690	Mele	Mozambique					23778	MW 80-489								
23691	Mele	Mozambique					23779	MW 80-490								
23692	Mele	Mozambique					23780	MW 80-491								
23693	Mele	Mozambique					23781	MW 80-492								
23694	Mele	Mozambique					23782	MW 80-493								
23695	Mele	Mozambique					23783	MW 80-494								
23696	Mele	Mozambique					23784	MW 80-495								
23697	Mele	Mozambique					23785	MW 80-496								
23698	Mele	Mozambique					23786	MW 80-497								
23699	Mele	Mozambique					23787	MW 80-498								
23700	Mele	Mozambique					23788	MW 80-499								
23701	Mele	Mozambique					23789	MW 80-500								
23702	RPM 177-1	Mozambique					23790	MW 80-501								
23703	Amurea	Mozambique					23791	MW 80-502								
23704	RPM 178-1	Mozambique					23792	MW 80-503								
23705	RPM 178-2	Mozambique					23793	MW 80-504								
23706	RPM 178-3	Mozambique					23794	MW 80-505								
23707	Beta	Mozambique					23795	MW 80-506								
23708	Beta	Mozambique					23796	MW 80-507								
23709	Beta	Mozambique					23797	MW 80-508								
23710	Piera	Mozambique					23798	MW 80-509								
23711	Piera	Mozambique					23799	MW 80-510								
23712	Murea	Mozambique					23800	MW 80-511								
23713	Murea	Mozambique					23801	MW 80-512								
23714	Ribua	Mozambique					23802	MW 80-513								
23715	Ribua	Mozambique					23803	MW 80-514								
23716	Mazambiq	Mozambique					23804	MW 80-515								
23717	Mazambiq	Mozambique					23805	MW 80-516								
23718	Mazambiq	Mozambique					23806	MW 80-517								
23719	Mazambiq	Mozambique					23807	MW 80-518								
23720	Mazambiq	Mozambique					23808	MW 80-519								
23721	Mazambiq	Mozambique					23809	MW 80-520								
23722	Mazambiq	Mozambique					23810	MW 80-521								
23723	Mazambiq	Mozambique					23811	MW 80-522								
23724	Mazambiq	Mozambique					23812	MW 80-523								
23725	Mazambiq	Mozambique					23813	MW 80-524								
23726	Mazambiq	Mozambique					23814	MW 80-525								
23727	Mazambiq	Mozambique					23815	MW 80-526								
23728	Mazambiq	Mozambique					23816	MW 80-527								
23729	Mazambiq	Mozambique					23817	MW 80-528								
23730	Mazambiq	Mozambique					23818	MW 80-529								
23731	Mazambiq	Mozambique					23819	MW 80-530								
23732	Mazambiq	Mozambique					23820	MW 80-531								
23733	Mazambiq	Mozambique					23821	MW 80-532								
23734	Mazambiq	Mozambique					23822	MW 80-533								
23735	Mazambiq	Mozambique					23823	MW 80-534								
23736	Mazambiq	Mozambique					23824	MW 80-535								
23737	Mazambiq	Mozambique					23825	MW 80-536								
23738	Mazambiq	Mozambique					23826	MW 80-537								
23739	Mazambiq	Mozambique					23827	MW 80-538								
23740	Mazambiq	Mozambique					23828	MW 80-539								
23741	Mazambiq	Mozambique					23829	MW 80-540								
23742	Mazambiq	Mozambique					23830	MW 80-541								
23743	Mazambiq	Mozambique					23831	MW 80-542								
23744	Mazambiq	Mozambique					23832	MW 80-543								
23745	Mazambiq	Mozambique					23833	MW 80-544								
23746	Mazambiq	Mozambique					23834	MW 80-545								
23747	Mazambiq	Mozambique					23835	MW 80-546								
23748	Mazambiq	Mozambique					23836	MW 80-547								
23749	Mazambiq	Mozambique					23837	MW 80-548								
23750	Mazambiq	Mozambique					23838	MW 80-549								
23751	Mazambiq	Mozambique					23839	MW 80-550								
23752	Mazambiq	Mozambique					23840	MW 80-551								
23753	Mazambiq	Mozambique					23841	MW 80-552								
23754	Mazambiq	Mozambique					23842	MW 80-553								
23755	Mazambiq	Mozambique					23843	MW 80-554								
23756	Mazambiq	Mozambique					23844	MW 80-555								
23757	Mazambiq	Mozambique					23845	MW 80-556								
23758	Mazambiq	Mozambique					23846	MW 80-557								
23759	Mazambiq	Mozambique					23847	MW 80-558								
23760	Mazambiq	Mozambique					23848	MW 80-559								
23761	Mazambiq	Mozambique					23849	MW 80-560								
23762	Mazambiq	Mozambique					23850	MW 80-561								

IS No	Alternate expression identifier	Source country	NF				SH		MID		IS No	Alternate accession identifier	Source country	NF				SH		MID		DR	
			K	FR	19S	19S	19R	19R	R	FR				19S	19S	19R	19R	R	FR	19S	19S		19R
23811	MW 80-756	Malawi			5(1)					23808	AK 126	Yemen						5(1)		5(1)			
23812	MW 80-778	Malawi			5(1)					23809	AK 127	Yemen						5(1)		5(1)			
23813	MW 80-781	Malawi			5(1)					23807	AK 128	Yemen						5(2)		5(2)			
23814	MW 80-783	Malawi			5(1)					23808	AK 129	Yemen						5(1)		5(1)			
23815	MW 80-796	Malawi			5(1)		5(1)			23809	AK 130	Yemen						5(1)		5(1)			
23816	AK 1	Yemen			5(1)					23801	AK 131	Yemen						5(1)		5(1)			
23817	AK 2	Yemen			5(1)					23802	AK 132	Yemen						5(1)		5(1)			
23818	AK 3	Yemen			5(1)					23803	AK 133	Yemen						5(1)		5(1)			
24019	AK 4	Yemen			5(1)		5(1)			23804	AK 135	Yemen						5(1)		5(2)			
24820	AK 6	Yemen			5(1)					23804	AK 136	Yemen						5(1)		5(1)			
23821	AK 7	Yemen			5(1)		5(1)			23805	AK 137	Yemen						5(1)		5(1)			
23822	AK 8	Yemen			5(1)		5(1)			23806	AK 138	Yemen						5(1)		5(1)			
23823	AK 11	Yemen			5(1)		5(1)			23807	AK 139	Yemen						5(1)		5(1)			
23824	AK 13	Yemen			5(1)		5(1)			23808	AK 140	Yemen						5(1)		5(1)			
23825	AK 16	Yemen			5(1)		5(1)			23809	AK 141	Yemen						5(1)		5(1)			
23827	AK 17	Yemen			5(1)					23810	AK 142	Yemen						5(1)		5(1)			
24828	AK 18	Yemen			5(1)		5(1)			23811	AK 143	Yemen						5(1)		5(1)			
23829	AK 19	Yemen			5(1)		5(1)			23813	AK 145	Yemen						5(1)		5(1)			
24830	AK 20	Yemen			5(1)		5(1)			23814	AK 146	Yemen						5(1)		5(1)			
24831	AK 22	Yemen			5(1)					24815	AK 147	Yemen						5(1)		5(1)			
23832	AK 23	Yemen			5(1)					23816	AK 149	Yemen						5(1)		5(1)			
24833	AK 24	Yemen			5(2)		5(2)			23817	AK 150	Yemen						5(1)		5(1)			
24834	AK 25	Yemen			5(1)		5(1)			23818	AK 152	Yemen						5(1)		5(1)			
24835	AK 27	Yemen			5(1)		5(1)			23819	AK 153	Yemen						5(1)		5(1)			
23836	AK 28	Yemen			5(1)		5(1)			23820	AK 154	Yemen						5(1)		5(1)			
24837	AK 29	Yemen			5(1)		5(1)			23821	AK 155	Yemen						5(1)		5(1)			
23838	AK 30	Yemen			5(1)		5(1)			23822	AK 156	Yemen						5(1)		5(1)			
24839	AK 31	Yemen			5(2)		5(1)			23823	AK 157	Yemen						5(1)		5(2)			
24840	AK 32	Yemen			5(2)		5(1)			23824	AK 158	Yemen						5(1)		5(2)			
24841	AK 33	Yemen			5(1)					24825	AK 161	Yemen						5(1)		5(1)			
23842	AK 34	Yemen			5(1)		5(1)			23826	AK 163	Yemen						5(1)		5(2)			
24843	AK 36	Yemen			5(1)					23827	AK 165	Yemen						5(1)		5(1)			
23844	AK 37	Yemen			5(1)					23828	AK 167	Yemen						5(1)		5(1)			
23845	AK 38	Yemen			5(1)		5(1)			23829	AK 168	Yemen						5(1)		5(1)			
23846	AK 39	Yemen			5(1)		5(1)			23830	AK 169	Yemen						5(1)		5(1)			
23847	AK 40	Yemen			5(1)		5(1)			23831	AK 170	Yemen						5(1)		5(1)			
24848	AK 41	Yemen			5(1)		5(1)			23832	AK 171	Yemen						5(1)		5(1)			
23849	AK 43	Yemen			5(1)		5(1)			23833	AK 172	Yemen						5(1)		5(1)			
23850	AK 44	Yemen			5(1)		5(1)			23834	AK 176	Yemen						5(1)		5(1)			
23851	AK 45	Yemen			5(1)					23835	AK 177	Yemen						5(1)		5(1)			
23852	AK 47	Yemen			5(1)		5(1)			23836	AK 180	Yemen						5(1)		5(1)			
23853	AK 48	Yemen			5(1)					23838	AK 185	Yemen						5(1)		5(1)			
23854	AK 49	Yemen			5(1)					23839	AK 186	Yemen						5(1)		5(1)			
23855	AK 50	Yemen			5(1)		5(1)			23840	AK 190	Yemen						5(1)		5(1)			
23856	AK 51	Yemen			5(1)		5(1)			23841	AK 198	Yemen						5(1)		5(1)			
23857	AK 52	Yemen			5(1)		5(1)			23842	AK 199	Yemen						5(1)		5(1)			
23858	AK 53	Yemen			5(1)		5(1)			23843	AK 199	Yemen						5(1)		5(2)			
23859	AK 54	Yemen			5(1)		5(1)			23844	AK 200	Yemen						5(1)		5(1)			
23860	AK 60	Yemen			5(1)					23845	AK 206	Yemen						5(1)		5(1)			
23861	AK 60	Yemen			5(1)					23846	AK 207	Yemen						5(1)		5(1)			
23862	AK 61	Yemen			5(1)					23847	AK 208	Yemen						5(1)		5(1)			
23863	AK 72	Yemen			5(1)		5(2)			23848	AK 208	Yemen						5(1)		5(1)			
23864	AK 73	Yemen			5(1)					23849	AK 208	Yemen						5(1)		5(1)			
23865	AK 74	Yemen			5(2)		5(1)			23850	AK 208	Yemen						5(1)		5(1)			
23866	AK 75	Yemen			5(1)					23851	AK 209	Yemen						5(1)		5(1)			
23867	AK 76	Yemen			5(2)					23852	AK 209	Yemen						5(1)		5(1)			
23868	AK 84	Yemen			5(1)					23853	AK 209	Yemen						5(1)		5(1)			
23869	AK 85	Yemen			5(1)					23854	AK 209	Yemen						5(1)		5(1)			
23870	AK 86	Yemen			5(1)		5(2)			23855	AK 209	Yemen						5(1)		5(1)			
23871	AK 87	Yemen			5(1)		5(1)			23856	AK 209	Yemen						5(1)		5(1)			
23872	AK 90	Yemen			5(2)					23857	AK 212	Yemen						5(1)		5(1)			
23873	AK 94	Yemen			5(1)					23858	AK 213	Yemen						5(1)		5(1)			
23874	AK 96	Yemen			5(2)					23859	AK 215	Yemen						5(1)		5(1)			
23875	AK 99	Yemen			5(2)					23860	AK 219	Yemen						5(1)		5(2)			
23876	AK 99	Yemen			5(2)					23861	AK 219	Yemen						5(1)		5(1)			
23877	AK 102	Yemen			5(2)		5(1)			23862	AK 219	Yemen						5(1)		5(2)			5(1)
23878	AK 106	Yemen			5(1)					23863	AK 219	Yemen						5(1)		5(1)			
23879	AK 107	Yemen			5(1)					23864	AK 219	Yemen						5(1)		5(1)			
23880	AK 108	Yemen			5(1)		5(1)			23865	AK 219	Yemen						5(1)		5(1)			
23881	AK 109	Yemen			5(1)		5(1)			23866	AK 219	Yemen						5(1)		5(1)			
23882	AK 110	Yemen			5(2)					23867	AK 219	Yemen						5(1)		5(1)			
23883	AK 111	Yemen			5(1)					23868	AK 219	Yemen						5(1)		5(1)			5(1)
23884	AK 112	Yemen			5(1)		5(1)			23869	AK 219	Yemen						5(1)		5(1)			5(1)
23885	AK 113	Yemen			5(1)		5(1)			23870	AK 219	Yemen						5(1)		5(1)			5(1)
23886	AK 114	Yemen			5(1)					23871	AK 222	Yemen						5(1)		5(1)			
23887	AK 115	Yemen			5(1)					23872	AK 240	Yemen						5(1)		5(1)			
23888	AK 116	Yemen			5(1)					23873	AK 251	Yemen						5(1)		5(1)			
23889	AK 117	Yemen			5(1)					23874	AK 253	Yemen						5(1)		5(1)			
24091	AK 119	Yemen			5(1)					23875	AK 261	Yemen						5(1)		5(2)			
23891	AK 122	Yemen			5(1)					23876	AK 273	Yemen						5(1)		5(1)			
23892	AK 123	Yemen			5(1)					23877	AK 277	Yemen						5(1)		5(1)			
23893	AK 124	Yemen			5(1)		5(2)			23878	AK 278	Yemen						5(1)		5(1)			
23894	AK 125	Yemen			5(1)		5(2)			23879	AK 278	Yemen						5(1)		5(1)			
23895	AK 125	Yemen																					

IS No	Alternate accession identifier	Source country	SF		SH		MD		MB		IS No	Alternate accession identifier	Source country	SF		SH		MD		MB		
			R	PR	EMIS	ES	DR	DR	R	PR				EMIS	ES	DR	DR	R	PR	EMIS	ES	DR
23065	AR 128	Yemen	-	-	-	-	-	-	-	-	24069	HS 240	Tanzania	-	-	-	-	-	-	-	-	-
23067	AR 189	Yemen	-	-	-	-	-	-	-	-	24070	HS 247	Tanzania	-	-	-	-	-	-	-	-	-
23068	AR 193	Yemen	-	-	-	-	-	-	-	-	24071	HS 243-3	Tanzania	-	-	-	-	-	-	-	-	-
23069	AR 194	Yemen	-	-	-	-	-	-	-	-	24072	HS 247	Tanzania	-	-	-	-	-	-	-	-	-
23070	AR 203	Yemen	-	-	-	-	-	-	-	-	24073	HS 241	Tanzania	-	-	-	-	-	-	-	-	-
23075	AR 205	Yemen	-	-	-	-	-	-	-	-	24074	HS 247	Tanzania	-	-	-	-	-	-	-	-	-
23076	AR 206	Yemen	-	-	-	-	-	-	-	-	24075	HS 247	Tanzania	-	-	-	-	-	-	-	-	-
23077	AR 216	Yemen	-	-	-	-	-	-	-	-	24076	HS 248	Tanzania	-	-	-	-	-	-	-	-	-
23078	AR 220	Yemen	-	-	-	-	-	-	-	-	24077	HS 249	Tanzania	-	-	-	-	-	-	-	-	-
23079	AR 222	Yemen	-	-	-	-	-	-	-	-	24078	HS 251	Tanzania	-	-	-	-	-	-	-	-	-
23080	AR 230	Yemen	-	-	-	-	-	-	-	-	24079	HS 252	Tanzania	-	-	-	-	-	-	-	-	-
23091	AR 231	Yemen	-	-	-	-	-	-	-	-	24080	HS 254	Tanzania	-	-	-	-	-	-	-	-	-
23092	AR 233	Yemen	-	-	-	-	-	-	-	-	24081	HS 255	Tanzania	-	-	-	-	-	-	-	-	-
23093	AR 236	Yemen	-	-	-	-	-	-	-	-	24082	HS 257	Tanzania	-	-	-	-	-	-	-	-	-
23094	AR 238	Yemen	-	-	-	-	-	-	-	-	24083	HS 258	Tanzania	-	-	-	-	-	-	-	-	-
23095	AR 239	Yemen	-	-	-	-	-	-	-	-	24084	HS 260	Tanzania	-	-	-	-	-	-	-	-	-
23096	AR 240	Yemen	-	-	-	-	-	-	-	-	24085	HS 261	Tanzania	-	-	-	-	-	-	-	-	-
23097	AR 242	Yemen	-	-	-	-	-	-	-	-	24086	HS 262	Tanzania	-	-	-	-	-	-	-	-	-
23098	AR 244	Yemen	-	-	-	-	-	-	-	-	24087	HS 263	Tanzania	-	-	-	-	-	-	-	-	-
23099	AR 250	Yemen	-	-	-	-	-	-	-	-	24088	HS 264	Tanzania	-	-	-	-	-	-	-	-	-
23100	AR 251	Yemen	-	-	-	-	-	-	-	-	24089	HS 265	Tanzania	-	-	-	-	-	-	-	-	-
23101	AR 257	Yemen	-	-	-	-	-	-	-	-	24090	HS 268	Tanzania	-	-	-	-	-	-	-	-	-
23102	AR 258	Yemen	-	-	-	-	-	-	-	-	24091	HS 269	Tanzania	-	-	-	-	-	-	-	-	-
24003	AR 257	Yemen	-	-	-	-	-	-	-	-	24092	HS 270	Tanzania	-	-	-	-	-	-	-	-	-
24004	AR 261	Yemen	-	-	-	-	-	-	-	-	24093	HS 272	Tanzania	-	-	-	-	-	-	-	-	-
24011	HTX 2701-B	USA	-	-	-	-	-	-	-	-	24094	HS 273	Tanzania	-	-	-	-	-	-	-	-	-
24012	HTX 2769	USA	-	-	-	-	-	-	-	-	24095	HS 274	Tanzania	-	-	-	-	-	-	-	-	-
24013	FX 2774	USA	-	-	-	-	-	-	-	-	24096	HS 275	Tanzania	-	-	-	-	-	-	-	-	-
24014	FX 2776	USA	-	-	-	-	-	-	-	-	24097	HS 276	Tanzania	-	-	-	-	-	-	-	-	-
24015	FX 2780	USA	-	-	-	-	-	-	-	-	24098	HS 277	Tanzania	-	-	-	-	-	-	-	-	-
24016	FX 2781	USA	-	-	-	-	-	-	-	-	24099	HS 278-1	Tanzania	-	-	-	-	-	-	-	-	-
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24018	Magu black	Senegal	-	-	-	-	-	-	-	-	24101	HS 280	Tanzania	-	-	-	-	-	-	-	-	-
24019	Mb 1086	Senegal	-	-	-	-	-	-	-	-	24102	HS 286	Tanzania	-	-	-	-	-	-	-	-	-
24020	Vish	Senegal	-	-	-	-	-	-	-	-	24103	HS 281	Tanzania	-	-	-	-	-	-	-	-	-
24021	Tim	Senegal	-	-	-	-	-	-	-	-	24104	HS 292	Tanzania	-	-	-	-	-	-	-	-	-
24022	Congosane	Senegal	-	-	-	-	-	-	-	-	24105	HS 293	Tanzania	-	-	-	-	-	-	-	-	-
24023	HS 297	Senegal	-	-	-	-	-	-	-	-	24106	HS 293-1	Tanzania	-	-	-	-	-	-	-	-	-
24024	Surghum chizra	Tanzania	-	-	-	-	-	-	-	-	24107	HS 294	Tanzania	-	-	-	-	-	-	-	-	-
24025	Surghum castroan	Tanzania	-	-	-	-	-	-	-	-	24108	HS 286	Tanzania	-	-	-	-	-	-	-	-	-
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24325	PR 5576	Tanzania			5671			24311	SAR 2214	India			5111		5111
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24506	71181	South Africa			5(1)		5(1)	24588	10668	Lebanon				5(1)	5(1)
24507	71182	South Africa			5(1)		5(1)	24589	10669	Lebanon				5(1)	5(1)
24508	71254	South Africa			5(1)		5(1)	24590	10771	Lebanon				5(1)	5(1)
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24512	714	Lebanon			5(1)		5(1)	24594	11130	Lebanon				5(1)	5(1)
24513	715	Lebanon			4(2)		5(1)	24595	11136	Lebanon				5(1)	5(1)
24514	716	Lebanon			4(2)		5(1)	24596	11134	Lebanon				5(1)	5(1)
24515	718	Lebanon			5(1)		5(1)	24597	1184	Lebanon				5(1)	5(1)
24516	7181	Lebanon			5(1)		5(1)	24598	11600	Lebanon				5(1)	5(1)
24517	721	Lebanon			4(1)		5(1)	24599	11906	Lebanon				5(1)	5(1)
24518	7213	Lebanon			5(1)		5(1)	24600	12226	Lebanon				5(1)	5(1)
24519	7221	Lebanon			5(1)		5(1)	24601	12447	Lebanon				5(1)	5(1)
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24522	7343	Lebanon			5(1)		5(1)	24604	14250	Lebanon				5(1)	5(1)
24523	7344	Lebanon			5(1)		5(1)	24605	14249	Lebanon				5(1)	5(1)
24524	7345	Lebanon			5(1)		5(1)	24606	14577	Lebanon				5(1)	5(1)
24525	7347	Lebanon			5(1)		5(1)	24607	13808	Lebanon				5(1)	5(1)
24526	7348	Lebanon			5(1)		5(1)	24608	14012	Lebanon				5(1)	5(1)
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24528	7350	Lebanon			5(1)		5(1)	24610	14238	Lebanon				5(1)	5(1)
24529	7356	Lebanon			5(1)		5(1)	24611	14334	Lebanon				5(1)	5(1)
24530	7357	Lebanon			5(1)		5(1)	24612	14335	Lebanon				5(1)	5(1)
24531	7358	Lebanon			5(1)		5(1)	24613	14336	Lebanon				5(1)	5(1)
24532	7364	Lebanon			5(1)		5(1)	24614	14338	Lebanon				5(1)	5(1)
24533	7365	Lebanon			5(1)		5(1)	24615	14339	Lebanon				5(1)	5(1)
24534	7366	Lebanon			5(1)		5(1)	24616	14340	Lebanon				5(1)	5(1)
24535	433	Lebanon			5(2)		5(1)	24617	14342	Lebanon				5(1)	5(1)
24536	434	Lebanon			5(2)		5(1)	24618	14344	Lebanon				5(1)	5(1)
24537	4341	Lebanon			5(2)		5(1)	24619	12552	Lebanon				5(1)	5(2)
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24539	4352	Lebanon			5(1)		5(1)	24621	13331	Lebanon				5(1)	5(1)
24540	4356	Lebanon			5(1)		5(1)	24622	1677	Lebanon				5(1)	5(1)
24541	4357	Lebanon			5(1)		5(1)	24623	1690	Lebanon				5(1)	5(1)
24542	4331	Lebanon			5(1)		5(1)	24624	16711	Lebanon				5(1)	5(1)
24543	4334	Lebanon			5(1)		5(1)	24625	16726	Lebanon				5(1)	5(1)
24544	4336	Lebanon			5(1)		5(1)	24626	16754	Lebanon				5(1)	5(1)
24545	4338	Lebanon			5(1)		5(1)	24627	16688	Lebanon				5(1)	5(1)
24546	4331	Lebanon			5(1)		5(1)	24628	1794	Lebanon				5(1)	5(1)
24547	5333	Lebanon			5(1)		5(1)	24629	1777	Lebanon				5(1)	5(1)
24548	5343	Lebanon			5(1)		5(1)	24630	1778	Lebanon				5(1)	5(1)
24549	5343	Lebanon			5(1)		5(1)	24631	17728	Lebanon				5(1)	5(1)
24550	5365	Lebanon			5(1)		5(1)	24632	17731	Lebanon				5(1)	5(1)
24551	5369	Lebanon			5(1)		5(1)	24633	17712	Lebanon				5(1)	5(1)
24552	5372	Lebanon			5(1)		5(1)	24634	17743	Lebanon				5(1)	5(1)
24553	6333	Lebanon			5(1)		5(1)	24635	17758	Lebanon				5(1)	5(1)
24554	6322	Lebanon			5(1)		5(1)	24636	17665	Lebanon				5(1)	5(1)
24555	6324	Lebanon			5(1)		5(1)	24637	17908	Lebanon				5(1)	5(1)
24556	6329	Lebanon			5(1)		5(1)	24638	17669	Lebanon				5(1)	5(1)
24557	6334	Lebanon			2(1)		5(1)	24639	17736	Lebanon				5(1)	5(1)
24558	6336	Lebanon			5(1)		5(1)	24640	17754	Lebanon				5(1)	5(1)
24559	6337	Lebanon			5(1)		5(1)	24641	17778	Lebanon				5(1)	5(1)
24560	6340	Lebanon			5(1)		5(1)	24642	17699	Lebanon				5(1)	5(1)
24561	6342	Lebanon			5(1)		5(1)	24643	17787	Lebanon				5(1)	5(1)
24562	6614	Lebanon			1(1)		5(1)	24644	17808	Lebanon				5(1)	5(1)
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24565	7211	Lebanon			5(1)		5(1)	24647	17908	Lebanon				5(1)	5(1)
24566	7214	Lebanon			5(1)		5(1)	24648	18110	Lebanon				5(1)	5(1)
24567	7216	Lebanon			5(1)		5(1)	24649	18113	Lebanon				5(1)	5(1)
24568	7224	Lebanon			5(1)		5(1)	24650	18348	Lebanon				5(1)	5(1)
24569	7233	Lebanon			5(1)		5(1)	24651	18309	Lebanon				5(1)	5(1)
24570	7236	Lebanon			5(1)		5(1)	24652	18373	Lebanon				5(1)	5(1)
24571	7241	Lebanon			5(1)		5(1)	24653	18372	Lebanon				5(1)	5(1)
24572	7262	Lebanon			5(1)		5(1)	24654	18678	Lebanon				5(1)	5(1)
24573	803	Lebanon			5(1)		5(1)	24655	18081	Lebanon				5(1)	5(1)
24574	809	Lebanon			5(1)		5(1)	24656	18082	Lebanon				5(1)	5(1)
24575	8235	Lebanon			5(1)		5(1)	24657	18083	Lebanon				5(1)	5(1)
24576	8234	Lebanon			5(1)		5(1)	24658	18080	Lebanon				5(1)	5(1)
24577	8237	Lebanon			5(1)		5(1)	24659	18079	Lebanon				5(1)	5(1)
24578	8238	Lebanon			5(1)		5(1)	24660	18078	Lebanon				5(1)	5(1)
24579	8675	Lebanon			5(1)		5(1)	24661	18077	Lebanon				5(1)	5(1)
24580	8676	Lebanon			5(1)		5(1)	24662	18066	Lebanon				5(1)	5(1)
24581	8690	Lebanon			5(1)		5(1)	24663	18068	Lebanon				5(1)	5(1)
24582	8692	Lebanon			5(1)		5(1)	24664	18069	Lebanon				5(1)	5(1)
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HS No	Alternate accession	Source country	R			S			M			HS No	Alternate accession	Source country	R			S			M		
			FR	PR	TR	FR	PR	TR	FR	PR	TR				FR	PR	TR	FR	PR	TR	FR	PR	TR
24839	Kaura	Nigeria				1705	1185					24929	Nm 1469	Zambia									
24840	Kaura	Nigeria				5111						24930	Nm 1469	Zambia									
24841	Kaura	Nigeria				5111						24931	Nm 1787	Zambia									
24842	Kaura	Nigeria				5111						24932	Nm 1841	Zambia									
24843	Kaura	Nigeria				5111						24933	Nm 1858	Zambia									
24849	PC10 176	Nigeria				5111						24934	Nm 1885	Zambia									
24850	PC10 176	Nigeria				5111						24935	Nm 1900	Zambia									
24851	PC10 179	Nigeria				5111						24936	Nm 1920	Zambia									
24852	PC10 180	Nigeria				5111						24937	Nm 1961	Zambia									
24853	PC10 181	Nigeria				5111						24938	Nm 2093	Zambia									
24854	PC10 182	Nigeria				5111						24939	Nm 2072	Zambia									
24855	PC10 183	Nigeria				5111						24940	Nm 2093	Zambia									
24856	Kaura	Nigeria				5111						24941	Nm 2093	Zambia									
24857	Kaura	Nigeria				5111						24942	Nm 2103	Zambia									
24858	Kaura	Nigeria				5111						24943	Nm 2148	Zambia									
24859	Fata Lata	Nigeria				5111						24944	Nm 2151	Zambia									
24860	Fata Lata	Nigeria				5111						24945	Nm 2202	Zambia									
24861	PC10 180	Nigeria				5111						24946	Nm 2215	Zambia									
24862	Kaura	Nigeria				5111						24947	Nm 2226	Zambia									
24863	PC10 191	Nigeria				5111						24948	Nm 2203	Zambia									
24864	Kaura	Nigeria				5111						24949	Nm 2107	Zambia									
24865	Kaura	Nigeria				5111						24950	Nm 2415	Zambia									
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24869	Kaura	Nigeria				5111						24953	Nm 2344	Zambia									
24870	Kaura	Nigeria				5111						24954	Nm 2425	Zambia									
24871	Kaura	Nigeria				5111						24955	Nm 2454	Zambia									
24872	Fata Lata	Nigeria				5111						24956	Nm 2376	Zambia									
24873	Fata Lata	Nigeria				5111						24957	Nm 2409	Zambia									
24874	Kaura	Nigeria				5111						24958	Nm 2491	Zambia									
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24878	PC10 214	Nigeria				5111						24960	Nm 2508	Zambia									
24879	PC10 216	Nigeria				5111						24961	Nm 2446	Zambia									
24880	Kaura	Nigeria				5111						24962	Nm 2509	Zambia									
24881	Kaura	Nigeria				5111						24963	Nm 2526	Zambia									
24882	Kaura	Nigeria				5111						24964	Nm 2603	Zambia									
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24888	Kaura siliquum 11	Nigeria				5111						24971	Nm 2815	Zambia									
24889	Isachia carly selection	Nigeria				5111						24972	Nm 2910	Zambia									
24890	A 9025	Nigeria				5111						24973	Nm 2415	Zambia									
24891	Kaura bulli	Nigeria				5111						24974	Nm 3013	Zambia									
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24893	Kaura carly 11	Nigeria				5111						24976	AB 2	Zambia									
24894	Nm 1014	Zambia				5111						24978	AB 1	Sweden									
24895	Nm 1024-1	Zambia				5111						24979	AB 1	Sweden									
24896	Nm 1024-2	Zambia				5111						24980	AB 3	Sweden									
24897	Nm 1070	Zambia				5111						24981	AB 6	Sweden									
24898	Nm 1081	Zambia				5111						24982	AB 7	Sweden									
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24900	Nm 1113	Zambia				5111						24984	AB 9	Sweden									
24901	Nm 1118	Zambia				5111						24985	AB 10	Sweden									
24902	Nm 1146	Zambia				5111						24986	AB 11	Sweden									
24903	Nm 1148	Zambia				5111						24987	AB 11	Sweden									
24904	Nm 1160	Zambia				5111						24988	AB 14	Sweden									
24905	Nm 1167 A	Zambia				5111						24989	AB 12	Sweden									
24906	Nm 1167 B	Zambia				5111						24990	AB 16	Sweden									
24907	Nm 1172	Zambia				5111						24992	AB 17	Sweden									
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24909	Nm 1175	Zambia				5111						24991	AB 19	Sweden									
24910	Nm 1176	Zambia				5111						24994	AB 20	Sweden									
24911	Nm 1179	Zambia				5111						24995	AB 22	Sweden									
24912	Nm 1217-1	Zambia				5111						24996	AB 23	Sweden									
24913	Nm 1237-2	Zambia				5111						24997	AB 24	Sweden									
24914	Nm 1258	Zambia				5111						24998	AB 25	Sweden									
24915	Nm 1333	Zambia				5111						24999	AB 26	Sweden									
24916	Nm 1349	Zambia				5111						25000	AB 27	Sweden									
24917	Nm 1351	Zambia				5111						25001	AB 28	Sweden									
24918	Nm 1356	Zambia				5111						25002	AB 30	Sweden									
24919	Nm 1356	Zambia				5111						25003	AB 32	Sweden									
24920	Nm 1372	Zambia				5111						25004	AB 33	Sweden									
24921	Nm 1373	Zambia				5111						25005	AB 34	Sweden									
24922	Nm 1396	Zambia				5111						25006	AB 36	Sweden									
24923	Nm 1397	Zambia				5111						25007	AB 43	Sweden									
24924	Nm 1414	Zambia				5111						25008	AB 44	Sweden									
24925	Nm 1427	Zambia				5111						25009	AB 45	Sweden									
24926	Nm 1434	Zambia				5111						25010	AB 46	Sweden									
24927	Nm 1446	Zambia				5111						25011	AB 47	Sweden									
24928	Nm 1516	Zambia				5111						25012	AB 48	Sweden									

IS No	Alternative accession identifier	Source country	SI					IS No	Alternative accession identifier	Source country	SI				
			R	FR	SH	MS	DR				R	FR	SH	MS	DR
25161	KVSR 12	Kenya	-	4(1)	-	-	25453	PHN 275	Kenya	-	-	-	-	-	
25162	KVSR 13	Kenya	-	4(1)	-	-	25454	P 11	Burundi	-	-	-	5(1)	-	
25163	KVSR 14	Kenya	-	4(1)	-	-	25455	P 12	Burundi	-	-	-	5(1)	-	
25164	KVSR 15	Kenya	-	4(1)	-	-	25456	P 13	Burundi	-	-	-	5(1)	-	
25165	KVSR 16	Kenya	-	4(1)	5(1)	-	25457	P 34	Burundi	-	-	-	5(1)	-	
25166	KVSR 18	Kenya	-	4(1)	-	-	25458	P 15	Burundi	-	-	-	5(1)	-	
25167	KVSR 19	Kenya	-	4(1)	-	-	25459	P 16	Burundi	-	-	-	5(1)	-	
25168	KVSR 20	Kenya	-	4(1)	-	-	25460	P 17	Burundi	-	-	-	5(1)	-	
25169	KVSR 21	Kenya	-	5(1)	-	-	25461	P 18	Burundi	-	-	-	5(1)	-	
25170	KVSR 24	Kenya	-	5(1)	-	-	25462	P 19	Burundi	-	-	-	5(1)	-	
25171	KVSR 24	Kenya	-	5(1)	-	-	25463	P 20	Burundi	-	-	-	5(1)	-	
25172	KVSR 25	Kenya	-	5(1)	-	-	25464	P 21	Burundi	-	-	-	5(1)	-	
25173	KVSR 26	Kenya	-	4(1)	-	-	25465	P 21	Burundi	-	-	-	5(1)	-	
25174	KVSR 27	Kenya	-	4(1)	-	-	25466	P 42	Burundi	-	-	-	5(1)	-	
25175	KVSR 28	Kenya	-	5(1)	-	-	25467	P 45	Burundi	-	-	-	5(1)	-	
25176	KVSR 29	Kenya	-	5(1)	-	5(1)	25468	P 46	Burundi	-	-	-	4(1)	-	
25177	KVSR 30	Kenya	-	5(1)	-	-	25469	P 47	Burundi	-	-	-	4(1)	-	
25178	KVSR 31	Kenya	4(1)	-	-	-	25470	Yantohorea	Burundi	-	-	-	4(1)	-	
25179	KVSR 32	Kenya	5(1)	-	-	-	25471	Vavahindia	Burundi	-	-	-	4(1)	-	
25180	KVSR 36	Burundi	5(1)	-	-	-	25472	P 17	Burundi	-	-	-	5(1)	-	
25181	KVSR 37	Burundi	5(1)	-	5(1)	5(1)	25473	P 18	Burundi	-	-	-	5(1)	-	
25182	KVSR 38	Kenya	5(1)	-	5(1)	5(1)	25474	P 16	Burundi	-	-	-	5(1)	-	
25183	KVSR 39	Kenya	5(1)	-	-	-	25475	P 17	Burundi	-	-	-	4(1)	-	
25184	KVSR 40	Kenya	5(1)	-	-	-	25476	P 18	Burundi	-	-	-	5(1)	-	
25185	KVSR 41	Kenya	5(1)	-	-	5(1)	25477	Aemulohoya	Burundi	-	-	-	4(1)	-	
25186	KVSR 42	Kenya	5(1)	-	5(1)	5(1)	25478	P 12	Burundi	-	-	-	4(1)	-	
25187	KVSR 43	Kenya	5(1)	-	5(1)	5(1)	25479	P 14	Burundi	-	-	-	4(1)	-	
25188	KVSR 44	Kenya	5(1)	-	5(1)	5(1)	25480	P 16	Burundi	-	-	-	4(1)	-	
25189	KVSR 45	Kenya	5(1)	-	-	-	25481	P 17	Burundi	-	-	-	5(1)	-	
25190	KVSR 46	Kenya	5(1)	-	5(1)	5(1)	25482	P 18	Burundi	-	-	-	5(1)	-	
25191	KVSR 47	Burundi	5(1)	-	5(1)	5(1)	25483	P 18	Burundi	-	-	-	5(1)	5(1)	
25192	KVSR 48	Kenya	5(1)	-	5(1)	5(1)	25484	P 19	Burundi	-	-	-	5(1)	-	
25193	KVSR 49	Kenya	5(1)	-	-	5(1)	25490	P 19	Burundi	-	-	-	5(1)	5(1)	
25194	KVSR 51	Kenya	5(1)	-	5(1)	5(1)	25493	P 19	Burundi	-	-	-	5(1)	-	
25195	KVSR 52	Kenya	5(1)	-	5(1)	-	25492	P 12	Burundi	-	-	-	5(1)	-	
25198	KVSR 56	Kenya	5(1)	-	-	-	25493	P 14	Burundi	-	-	-	5(1)	-	
25199	KVSR 57	Kenya	5(1)	-	-	-	25494	P 14	Burundi	-	-	-	5(1)	-	
25200	KVSR 58	Kenya	5(1)	-	5(1)	5(1)	25495	P 18	Burundi	-	-	-	5(1)	-	
25201	KVSR 59	Kenya	5(1)	-	-	-	25496	P 16	Burundi	-	-	-	5(1)	-	
25202	KVSR 61	Kenya	5(1)	-	-	5(1)	25497	P 17	Burundi	-	-	-	5(1)	-	
25203	KVSR 62	Kenya	5(1)	-	5(1)	5(1)	25498	P 18	Burundi	-	-	-	5(1)	-	
25204	KVSR 63	Kenya	5(1)	-	5(1)	5(1)	25499	P 18	Burundi	-	-	-	5(1)	-	
25205	KVSR 64	Kenya	5(1)	-	5(1)	5(1)	25500	P 17	Burundi	-	-	-	5(1)	-	
25206	KVSR 65	Kenya	5(1)	-	5(1)	5(1)	25501	P 17	Burundi	-	-	-	5(1)	-	
25207	KVSR 66	Kenya	5(1)	-	5(1)	5(1)	25502	P 17	Burundi	-	-	-	5(1)	-	
25208	KVSR 69	Kenya	5(1)	-	-	5(1)	25503	P 17	Burundi	-	-	-	5(1)	-	
25209	KVSR 70	Kenya	5(1)	-	5(1)	5(1)	25504	P 17	Burundi	-	-	-	5(1)	-	
25210	KVSR 71	Kenya	5(1)	-	5(1)	5(1)	25505	P 17	Burundi	-	-	-	5(1)	-	
25211	KVSR 72	Kenya	5(1)	-	5(1)	5(1)	25506	P 17	Burundi	-	-	-	5(1)	-	
25212	KVSR 73	Kenya	4(1)	-	5(1)	5(1)	25507	P 17	Burundi	-	-	-	5(1)	5(1)	
25213	KVSR 74	Kenya	5(1)	-	-	5(1)	25508	P 17	Burundi	-	-	-	5(1)	-	
25214	KVSR 75	Burundi	5(1)	-	5(1)	5(1)	25509	P 17	Burundi	-	-	-	5(1)	-	
25215	KVSR 76	Kenya	5(1)	-	5(1)	5(1)	25510	P 17	Burundi	-	-	-	5(1)	-	
25216	KVSR 77	Kenya	5(1)	-	5(1)	5(1)	25511	P 17	Burundi	-	-	-	5(1)	-	
25217	KVSR 78	Kenya	5(1)	-	4(1)	5(1)	25512	P 17	Burundi	-	-	-	5(1)	-	
25218	KVSR 79	Kenya	5(1)	-	5(1)	5(1)	25513	P 17	Burundi	-	-	-	5(1)	-	
25219	KVSR 80	Kenya	5(1)	-	5(1)	5(1)	25514	P 17	Burundi	-	-	-	5(1)	-	
25220	KVSR 81	Kenya	5(1)	-	5(1)	5(1)	25515	P 17	Burundi	-	-	-	5(1)	-	
25221	KVSR 84	Kenya	4(1)	-	-	-	25516	P 18	Burundi	-	-	-	5(1)	-	
25222	KVSR 85	Kenya	4(1)	-	-	-	25517	P 18	Burundi	-	-	-	5(1)	-	
25223	KVSR 86	Kenya	4(1)	-	-	-	25518	P 18	Burundi	-	-	-	5(1)	-	
25224	KVSR 87	Kenya	5(1)	-	5(1)	-	25519	P 17	Burundi	-	-	-	5(1)	-	
25225	KVSR 88	Kenya	5(1)	-	5(1)	-	25520	P 17	Burundi	-	-	-	5(1)	-	
25226	KVSR 89	Kenya	5(1)	-	5(1)	-	25521	P 17	Burundi	-	-	-	5(1)	-	
25227	KVSR 90	Kenya	5(1)	-	5(1)	-	25522	P 17	Burundi	-	-	-	5(1)	-	
25228	KVSR 91	Kenya	5(1)	-	5(1)	-	25523	P 17	Burundi	-	-	-	5(1)	-	
25229	KVSR 94	Kenya	4(1)	-	5(1)	5(1)	25524	P 17	Burundi	-	-	-	5(1)	-	
25230	KVSR 95	Kenya	5(1)	-	-	-	25525	P 17	Burundi	-	-	-	5(1)	-	
25231	KVSR 96	Kenya	5(1)	-	5(1)	-	25526	Hydrocotyle	Burundi	-	-	-	5(1)	-	
25232	KVSR 97	Kenya	5(1)	-	5(1)	-	25527	Antiaranea	Burundi	-	-	-	5(1)	-	
25233	KVSR 98	Kenya	5(1)	-	5(1)	-	25528	P 17	Burundi	-	-	-	5(1)	-	
25234	KVSR 99	Kenya	5(1)	-	5(1)	-	25529	P 17	Burundi	-	-	-	5(1)	-	
25235	KVSR 99	Kenya	5(1)	-	5(1)	-	25530	P 17	Burundi	-	-	-	5(1)	-	
25236	KVSR 99	Kenya	5(1)	-	5(1)	-	25531	P 17	Burundi	-	-	-	5(1)	-	
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25239	KVSR 99	Kenya	5(1)	-	5(1)	-	25534	P 17	Burundi	-	-	-	5(1)	-	
25240	KVSR 99	Kenya	5(1)	-	5(1)	-	25535	P 17	Burundi	-	-	-	5(1)	-	
25241	KVSR 99	Kenya	5(1)	-	5(1)	-	25536	P 17	Burundi	-	-	-	5(1)	-	
25242	KVSR 99	Kenya	5(1)	-	5(1)	-	25537	P 17	Burundi	-	-	-	5(1)	-	
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25271	KVSR 99	Kenya	5(1)	-	5(1)	-	25566	P 17	Burundi	-	-	-	5(1)	-	
25272	KVSR 99	Kenya	5(1)	-	5(1)	-	255								

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25543	Amahoro	Ruwanda			403					25630	CSM 128-003	Mali			511						511			511
25544	E yanyosha	Ruwanda			511					25631	CSM 109-041	Mali			511						511			511
25545	E yanyosha	Ruwanda			511					25632	CSM 200-046	Mali			511						511			511
25546	Urutaga	Ruwanda			511					25633	CSM 302-048	Mali			511						511			511
25547	Igitukura	Ruwanda			303					25634	CSM 252-068	Mali			511						511			511
25548	Akuruhuru	Ruwanda			412					25635	CSM 223-097	Mali			511						511			511
25549	Iyobye	Ruwanda			311					25636	CSM 225-097	Mali			411						411			411
25550	Iyobye	Ruwanda			413					25637	CSM 230-008	Mali			511						511			511
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25552	Ezabura	Ruwanda			511					25639	CSM 353-031	Mali			501						501			501
25553	Iyobye	Ruwanda			511					25640	CSM 200-077	Mali			511						511			511
25554	Nyamurungu	Ruwanda			511					25641	CSM 200-107	Mali			511						511			511
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25558	Iyobye	Ruwanda			411					25645	CSM 312-106	Mali			511						511			511
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25017	Niemelt	Mal			5112		25000	Saguetaria	Mal				5111		
25018	Kudaka tile	Mal			5113		25001	Saguetaria	Mal				5111		
25019	Stj 49 M	Mal			5114		25002	Kalla tingga	Mal				5111		
25020	Isenan	Mal			5115		25003	Kalla ku	Mal				5111		
25021	Therobas	Mal			5116		25004	Kalla mingga	Mal				5111		
25022	Nomih die	Mal			5117		25005	Saguetaria	Mal				5111		
25023	Kende tile	Mal			5118		25006	Kalla mingga	Mal				5111		
25024	Kende waka	Mal			5119		25007	Kende	Mal				5111		
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25026	Kende	Mal			5121		25009	Kalla wanga	Mal				5121		
25027	Somah	Mal			5122		25010	Kalla kamant	Mal				5121		
25028	Som kagat	Mal			5123		25011	Kalla muni	Mal				5121		
25029	Darohm jeh	Mal			5124		25012	Kalla faga	Mal				5121		
25030	Kende male	Mal			5125		25013	Kalla wanga	Mal				5121		
25031	Kende Dic	Mal			5126		25014	Zangano	Mal				5121		
25032	Bimbiri	Mal			5127		25015	Saguetaria	Mal				5121		
25033	Kende dikari	Mal			5128		25016	Saguetaria	Mal				5121		
25034	Bimbiri baidi	Mal			5129		25017	Kerangka Ba	Mal				5121		
25035	Bimbiri gajap	Mal			5130		25018	Kerangka Ba	Mal				5121		
25036	Kende dikari	Mal			5131		25019	Saguetaria	Mal				5121		
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25039	Tourakanan	Mal			5134		25022	Kerangka Ba	Mal				5121		
25040	Saguetaria	Mal			5135		25023	Kerangka bawo	Mal				5121		
25041	Sakuka bil	Mal			5136		25024	Saguetaria	Mal				5121		
25042	Sakuka	Mal			5137		25025	Kerangka Ba	Mal				5121		
25043	Kende die	Mal			5138		25026	Saguetaria	Mal				5121		
25044	Kende bilay	Mal			5139		25027	Die bil	Mal				5121		
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25046	Bimbiri gajap	Mal			5141		25029	Teng bil	Mal				5121		
25047	Sakuka	Mal			5142		25030	Blaga bapay	Mal				5121		
25048	Kende die	Mal			5143		25031	Semut	Mal				5121		
25049	Kerangka gele	Mal			5144		25032	Kerangka	Mal				5121		
25050	Buranti B	Mal			5145		25033	Kalla mingga	Mal				5121		
25051	Bimbiri mka dm	Mal			5146		25034	Saguetaria	Mal				5121		
25052	Sakuka	Mal			5147		25035	Kerangka Ba	Mal				5121		
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25055	Somih	Mal			5150		25038	Saguetaria	Mal				5121		
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25061	Bimbiri wari	Mal			5156		25044	Kalloratu	Mal				5121		
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25065	Tihogaga	Mal			5160		25048	Kalla ku	Mal				5121		5111
25066	Bimbiri wari	Mal			5161		25049	Sy pitorang	Mal				5121		
25067	Kende male	Mal			5162		25050	Saguetaria	Mal				5121		
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25069	Kende male	Mal			5164		25052	Die die	Mal				5121		
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25071	Kende simangas	Mal			5166		25054	Turonggan	Mal				5121		
25072	Kende Nyam	Mal			5167		25055	Turonggan	Mal				5121		
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25077	Bimbiri Ba	Mal			5172		25060	Worotan	Mal				5121		5111
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25079	Kende masta	Mal			5174		25062	Sari Larn	Mal				5121		
25080	Bimbiri wari	Mal			5175		25063	Somih	Mal				5121		
25081	Bimbiri	Mal			5176		25064	Semut	Mal				5121		
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25086	Kende die	Mal			5181		25069	Lima kerangka	Mal				5121		5121
25087	Kende die	Mal			5182		25070	Somih	Mal				5121		
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25090	Bimbiri	Mal			5185		25073	Saguetaria	Mal				5121		
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25092	Bimbiri	Mal			5187		25075	Saguetaria	Mal				5121		
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25095	Kerangka Ba	Mal			5190		25078	Worotan	Mal				5121		5111
25096	Saguetaria	Mal			5191		25079	Kerangka gajap	Mal				5121		
25097	Bimbiri Ba	Mal			5192		25080	Kerangka gajap	Mal				5121		
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IN No	Alternative accession	Source country	SF			SH			IN No	Alternative accession	Source country	SF			SH		
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26227	Dohi	Berun			5622				26214	Komana bequm	Berun					523
26228	Dohi	Berun			5614				26215	Komana bequm	Berun					511
26229	Dohi	Berun			5614				26216	Rumohutu	Berun					511
26230	Dohi wamukare	Berun			5611				26217	Makala	Berun					511
26231	Dosomou	Berun			5612				26218	Komana bequm	Berun					511
26232	Dohinon	Berun			5611				26219	Dohu	Berun					511
26233	Dohi	Berun			5611				26220	Makala	Berun					511
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26236	Simon-bellu	Berun			5611				26223	Makala	Berun					403
26237	Dohi	Berun			5611				26224	Makala	Berun					511
26238	Dohi pika	Berun			5611				26225	Makala	Berun					511
26239	SGI 401 7	Berun			5611				26226	Makala	Berun					511
26240	Dohi	Berun			5611				26227	Makala	Berun					511
26241	Espe	Berun			5611				26228	Toko beserem	Berun					511
26242	SGI 402.2	Berun			5611				26229	Toko beserem	Berun					511
26243	SGI 402.1	Berun			5611				26230	Komana bequm	Berun					511
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26778	Stuffed DK-109	South Africa	-	-	412	-	-	22473	S 47	Nigeria	-	-	-	-	511
26784	S. cafferensis	South Africa	-	-	-	313	313	26874	S 81-3	Nigeria	-	-	511	-	-
26785	S. cafferensis	South Africa	-	-	-	311	311	26878	S 201	Nigeria	-	-	512	-	-
26789	Apicalis sensu lato	South Africa	-	-	412	-	311	26879	S 204-1	Nigeria	-	-	511	-	-
26787	P 2221	South Africa	-	-	412	-	311	26880	S 214-1	Nigeria	-	-	512	-	-
26788	Wepi Y. indigita	South Africa	-	-	313	-	313	26881	S 216-2	Nigeria	-	-	512	-	-
26789	01341	South Africa	-	-	311	-	311	26882	S 211-1	Nigeria	-	-	512	-	-
26790	Mesocox	South Africa	-	-	311	-	-	26884	S 222-1	Nigeria	-	-	512	-	-
26791	Himrod 61	South Africa	-	-	311	-	311	26885	S 226-2	Nigeria	-	-	512	-	-
26792	Mbute 65	South Africa	-	-	311	-	311	26886	S 227-2	Nigeria	-	-	512	-	-
26793	White 66	South Africa	-	-	312	-	313	26886	S 228-2	Nigeria	-	-	511	-	-
26794	Broom 78	South Africa	-	-	313	-	313	26887	S 229-2	Nigeria	-	-	511	-	-
26795	09717	South Africa	-	-	312	-	312	26888	S 231-3	Nigeria	-	-	511	-	-
26796	09720	South Africa	-	-	311	-	-	26889	S 232-1	Nigeria	-	-	511	-	-
26797	YSC 15	Yemen	-	-	311	-	311	26890	S 234-3	Nigeria	-	-	511	-	-
26798	YSC 23	Yemen	-	-	311	-	-	26892	S 237-1	Nigeria	-	-	511	-	-
26799	YSC 41	Yemen	-	-	311	-	-	26894	S 242-1	Nigeria	-	-	511	-	-
26800	YSC 308	Yemen	-	-	311	-	311	26895	S 251	Nigeria	-	-	511	-	-
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26803	YSC 123	Yemen	-	-	311	-	311	26898	S 261-1	Nigeria	-	-	512	-	-
26804	YSC 180	Yemen	-	-	311	-	313	26899	S 266-2	Nigeria	-	-	512	-	-
26805	YSC 205	Yemen	-	-	311	-	313	26900	S 269-2	Nigeria	-	-	512	-	-
26806	YSC 215	Yemen	-	-	311	-	-	26901	S 280-1	Nigeria	-	-	512	-	-
26807	YSC 216	Yemen	-	-	311	-	-	26902	S 282	Nigeria	-	-	511	-	-
26808	YSC 221	Yemen	-	-	311	-	-	26903	S 283-2	Nigeria	-	-	512	-	-
26809	YSC 236	Yemen	-	-	311	-	-	26904	S 289-1	Nigeria	-	-	511	-	-
26810	YSC 264	Yemen	-	-	311	-	-	26905	S 311-1	Nigeria	-	-	111	-	-
26811	YSC 269	Yemen	-	-	311	-	312	26906	S 314	Nigeria	-	-	512	-	-
26812	YSC 285	Yemen	-	-	311	-	313	26908	11-0-1	Nigeria	-	-	512	-	-
26813	YSC 287	Yemen	-	-	311	-	313	26909	Local 2	Nigeria	-	-	512	-	-
26814	YSC 320	Yemen	-	-	311	-	313	26911	SP1 008-1	Nigeria	-	-	511	-	-
26815	YSC 320-1	Yemen	-	-	311	-	311	26912	SP1 009-2	Nigeria	-	-	511	-	-
26816	YSC 344	Yemen	-	-	311	-	313	26914	Shon keta	Nigeria	-	-	511	-	-
26819	YSC 372	Yemen	-	-	111	-	-	26914	B. 4	Nigeria	-	-	511	-	101
26820	YSC 372-1	Yemen	-	-	311	-	311	26915	11 1499	Nigeria	-	-	512	-	-
26821	YSC 490	Yemen	-	-	312	-	-	26916	SP1 23 14	Nigeria	-	-	511	-	-
26822	YSC 491	Yemen	-	-	312	-	-	26917	SP1 24 18	Nigeria	-	-	512	-	-
26823	YSC 491	Yemen	-	-	312	-	-	26918	SP1 24 18	Nigeria	-	-	511	-	-
26824	YSC 502	Yemen	-	-	311	-	-	26919	SP1 24 18	Nigeria	-	-	512	-	-
26825	YSC 516	Yemen	-	-	311	-	-	26920	SP1 25 18	Nigeria	-	-	511	-	411
26826	PI 055 067	Yemen	-	-	311	-	-	26921	SP1 27	Nigeria	-	-	512	-	-
26827	Alaba	Sudan	-	-	311	-	-	26921	SR5 484	Nigeria	-	-	511	-	-
26828	Nepesin	Sudan	-	-	311	-	-	26924	FR 5721	India	-	-	511	-	511
26829	Bareng	Sudan	-	-	311	-	-	26925	PR 5726	India	-	-	511	-	-
26830	Adulohat	Sudan	-	-	311	-	-	26926	FR 5728	India	-	-	511	-	-
26832	Saxilin	Sudan	-	-	311	-	-	26927	PR 5732	India	-	-	511	-	-
26834	Nyethin	Sudan	-	-	311	-	-	26928	FR 5733	India	-	-	511	-	-
26839	Nyethin	Sudan	-	-	311	-	-	26929	FR 5733	India	-	-	511	-	-
26840	Hwaki	Sudan	-	-	311	-	-	26930	FR 5741	India	-	-	511	-	-
26841	Niwotia	Sudan	-	-	312	-	-	26931	FR 6051	India	-	-	511	-	-
26842	Niwotia	Sudan	-	-	311	-	-	26932	PR 6052	India	-	-	512	-	-
26843	Niwotia	Sudan	-	-	311	-	-	26933	PR 6052	India	-	-	511	-	-
26844	Mullongh-waltri	Sudan	-	-	311	-	-	26933	FA 15-1	India	-	-	511	-	511
26845	Niwotia	Sudan	-	-	311	-	-	26934	M-2 366-2	India	-	-	511	-	-
26846	Niwotia	Sudan	-	-	311	-	-	26935	FA 2	India	-	-	511	-	-
26847	Azoo	Sudan	-	-	311	-	-	26936	FA 1	India	-	-	512	-	-
26848	Niwotia	Sudan	-	-	311	-	-	26937	FA 4	India	-	-	512	-	-
26849	Niwotia	Sudan	-	-	312	-	-	26938	FA 6	India	-	-	511	-	511
26850	Ekuilo	Sudan	-	-	311	-	-	26939	FA 7	India	-	-	511	-	-
26851	Abereng	Sudan	-	-	311	-	-	26941	FA 8	India	-	-	511	-	-
26852	Anguleng	Sudan	-	-	311	-	-	26942	FA 8	India	-	-	511	-	-
26853	Niwotia	Sudan	-	-	311	-	-	26943	FA 9	India	-	-	511	-	-
26854	Agayee	Sudan	-	-	311	-	-	26945	FA 11	India	-	-	512	-	-
26855	Lodogee	Sudan	-	-	311	-	-	26947	PR	India	-	-	511	-	511
26856	Lubidoo	Sudan	-	-	311	-	-	26948	PR	India	-	-	511	-	511
26857	Kabri	Sudan	-	-	312	-	-	26949	PR	India	-	-	511	-	-
26858	Pochalla-waltri	Sudan	-	-	312	-	-	26952	FA 70	India	-	-	511	-	-
26859	PR 72	Madagascar	-	-	313	-	-	26954	PR 02704	India	-	-	511	-	511
26860	S 10	Nigeria	-	-	312	-	311	26956	U 1 54	India	-	-	511	-	511
26861	S 13	Nigeria	-	-	311	-	311	26957	53	India	-	-	511	-	511
26862	S 17	Nigeria	-	-	311	-	312	26958	122	India	-	-	511	-	512
26863	S 20	Nigeria	-	-	311	-	311	26959	PR1	India	-	-	511	-	512
26864	S 21	Nigeria	-	-	311	-	312	26960	PR5	India	-	-	511	-	511
26865	S 14	Nigeria	-	-	311	-	311	26961	PR9	India	-	-	511	-	511
26866	S 15	Nigeria	-	-	311	-	311	26962	PR7	India	-	-	511	-	511
26867	S 16	Nigeria	-	-	311	-	311	26963	PR8	India	-	-	511	-	511
26868	S 17	Nigeria	-	-	311	-	311	26964	SPV 101	India	-	-	511	-	-
26869	S 18	Nigeria	-	-	311	-	311	26965	SPV 491	India	-	-	511	-	512
26870	S 40	Nigeria	-	-	311	-	311	26966	SPV 304	India	-	-	511	-	511
26871	S 45	Nigeria	-	-	311	-	311	26967	SPV 003	India	-	-	511	-	511

IS No	Alternative assessment identifier	Scheme country	SF				IS No	Alternative assessment identifier	Scheme country	SF			
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27172	TGR 1060	Zimbabwe					27254	TGR 1902	Zimbabwe				
27173	TGR 1066	Zimbabwe					27255	TGR 1909	Zimbabwe				
27174	TGR 1063	Zimbabwe					27256	TGR 1918 C	Zimbabwe				
27175	TGR 1107	Zimbabwe					27257	TGR 1929	Zimbabwe				
27176	TGR 1108	Zimbabwe					27258	TGR 1929 B	Zimbabwe				
27177	TGR 1111	Zimbabwe					27259	TGR 1911	Zimbabwe				
27178	TGR 1112	Zimbabwe					27260	TGR 1914	Zimbabwe				
27179	TGR 1116	Zimbabwe					27261	TGR 1908	Zimbabwe				
27180	TGR 1124	Zimbabwe					27262	TGR 1902	Zimbabwe				
27181	TGR 1125	Zimbabwe					27263	TGR 1909	Zimbabwe				
27182	TGR 1126	Zimbabwe					27264	TGR 2026	Zimbabwe				
27183	TGR 1126-1	Zimbabwe					27265	TGR 2043 A	Zimbabwe				
27184	TGR 1127	Zimbabwe					27266	TGR 2043 B	Zimbabwe				
27185	TGR 1147	Zimbabwe					27267	TGR 2043	Zimbabwe				
27186	TGR 1138	Zimbabwe					27268	TGR 2043 A	Zimbabwe				
27187	TGR 1158 A	Zimbabwe					27269	TGR 2043 B	Zimbabwe				
27188	TGR 1158 B	Zimbabwe					27270	TGR 2043	Zimbabwe				
27189	TGR 1163	Zimbabwe					27271	TGR 2043	Zimbabwe				
27190	TGR 1172	Zimbabwe					27272	TGR 2106	Zimbabwe				
27191	TGR 1134	Zimbabwe					27273	TGR 2106	Zimbabwe				
27192	TGR 1204	Zimbabwe					27274	Pachycaea	Burkina Faso				
27193	TGR 1204 A	Zimbabwe					27275	Kazungu	Burkina Faso				
27194	TGR 1204 B	Zimbabwe					27276	Tungogwa	Burkina Faso				
27195	TGR 1208	Zimbabwe					27277	Komolomli	Burkina Faso				
27196	TGR 1224	Zimbabwe					27278	karungu	Burkina Faso				
27197	TGR 1258	Zimbabwe					27279	Bodou	Burkina Faso				
27198	TGR 1269	Zimbabwe					27280	Tungogwa	Burkina Faso				
27199	TGR 1275	Zimbabwe					27281	kazungu	Burkina Faso				
27200	TGR 1285	Zimbabwe					27282	karungu	Burkina Faso				
27201	TGR 1306	Zimbabwe					27283	Burkina	Burkina Faso				
27202	TGR 1307	Zimbabwe					27284	Gardou	Burkina Faso				
27203	TGR 1313	Zimbabwe					27285	Burkina	Burkina Faso				
27204	TGR 1317 A	Zimbabwe					27286	Burkina	Burkina Faso				
27205	TGR 1317 B	Zimbabwe					27287	Kazungu	Burkina Faso				
27206	TGR 1347 A	Zimbabwe					27288	Sa-112	Burkina Faso				
27207	TGR 1347 B	Zimbabwe					27289	Sa-112	Burkina Faso				
27208	TGR 1352	Zimbabwe					27290	Wedougou	Burkina Faso				
27209	TGR 1406	Zimbabwe					27291	Wedougou	Burkina Faso				
27210	TGR 1423	Zimbabwe					27292	Pardougou	Burkina Faso				
27211	TGR 1444	Zimbabwe					27293	Kazungu	Burkina Faso				
27212	TGR 1448	Zimbabwe					27294	Kazungu	Burkina Faso				
27213	TGR 1487	Zimbabwe					27295	Pardougou	Burkina Faso				
27214	TGR 1487	Zimbabwe					27296	Pardougou	Burkina Faso				
27215	TGR 1508	Zimbabwe					27297	Sa-127	Burkina Faso				
27216	TGR 1509	Zimbabwe					27298	Sa-128	Burkina Faso				
27217	TGR 1516	Zimbabwe					27299	Sa-129	Burkina Faso				
27218	TGR 1523	Zimbabwe					27300	Sa-140	Burkina Faso				
27219	TGR 1535	Zimbabwe					27301	Sa-141	Burkina Faso				
27220	TGR 1552	Zimbabwe					27302	Sa-142	Burkina Faso				
27221	TGR 1556	Zimbabwe					27303	Sa-143	Burkina Faso				
27222	TGR 1578	Zimbabwe					27304	Sa-144	Burkina Faso				
27223	TGR 1625	Zimbabwe					27305	Sa-145	Burkina Faso				
27224	TGR 1625	Zimbabwe					27306	Alfougou	Burkina Faso				
27225	TGR 1646	Zimbabwe					27307	Sa-144	Burkina Faso				
27226	TGR 1662	Zimbabwe					27308	Sa-142	Burkina Faso				
27227	TGR 1663	Zimbabwe					27309	Sa-144	Burkina Faso				
27228	TGR 1673	Zimbabwe					27310	Sa-145	Burkina Faso				
27229	TGR 1680	Zimbabwe					27311	Habouly	Burkina Faso				
27230	TGR 1696	Zimbabwe					27312	Habo	Burkina Faso				
27231	TGR 1698	Zimbabwe					27313	Agougnou	Burkina Faso				
27232	TGR 1705	Zimbabwe					27314	Sa-144	Burkina Faso				
27233	TGR 1722	Zimbabwe					27315	Sa-133	Burkina Faso				
27234	TGR 1726	Zimbabwe					27316	Sa-146	Burkina Faso				
27235	TGR 1744	Zimbabwe					27317	Kazungu	Burkina Faso				
27236	TGR 1744	Zimbabwe					27318	Tungogwa	Burkina Faso				
27237	TGR 1745	Zimbabwe					27319	Tungogwa	Burkina Faso				
27238	TGR 1746	Zimbabwe					27320	Sa-142	Burkina Faso				
27239	TGR 1757	Zimbabwe					27321	Pardougou	Burkina Faso				
27240	TGR 1761	Zimbabwe					27322	Pardougou	Burkina Faso				
27241	TGR 1764	Zimbabwe					27323	Mopou	Burkina Faso				
27242	TGR 1775	Zimbabwe					27324	Quou	Burkina Faso				
27243	TGR 1786	Zimbabwe					27325	Quou	Burkina Faso				
27244	TGR 1796	Zimbabwe					27326	Burkina	Burkina Faso				
27245	TGR 1808	Zimbabwe					27327	Burkina	Burkina Faso				
27246	TGR 1836	Zimbabwe					27328	Mossou	Burkina Faso				
27247	TGR 1850	Zimbabwe					27329	Sa-143	Burkina Faso				
27248	TGR 1851	Zimbabwe					27330	Mouren	Burkina Faso				
27249	TGR 1850	Zimbabwe					27331	Alougnou	Burkina Faso				
27250	TGR 1859	Zimbabwe					27332	Mouren	Burkina Faso				
27251	TGR 1862	Zimbabwe					27333	Sa-145	Burkina Faso				
27252	TGR 1878	Zimbabwe					27334	SG 6201	Burkina Faso				
27253	TGR 1888	Zimbabwe					27335	Mouren	Burkina Faso				

IS No	Alternative accession identifier	Source country	SF					SB					MD	DB		
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27336	MF 600	Burkina Faso														
27337	MF 601	Burkina Faso														
27338	MF 602	Burkina Faso														
27339	MF 607	Burkina Faso														
27340	MF 6208	Burkina Faso														
27341	Kwida	Burkina Faso														
27342	Ny 616	Burkina Faso														
27343	Ny 617	Burkina Faso														
27344	Lali pelleri	Burkina Faso														
27345	SG 6217	Burkina Faso														
27346	SG 6238	Burkina Faso														
27347	SG 6239	Burkina Faso														
27348	SG 6270	Burkina Faso														
27349	SG 6271	Burkina Faso														
27350	SG 6272	Burkina Faso														
27351	SG 6273	Burkina Faso														
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27356	SG 6279	Burkina Faso														
27357	SG 6280	Burkina Faso														
27358	SG 6281	Burkina Faso														
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27364	SG 6287	Burkina Faso														
27365	Kazungu	Burkina Faso														
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27368	SG 6343	Burkina Faso														
27369	SG 6344	Burkina Faso														
27370	SG 6245	Burkina Faso														
27371	Prontigou	Burkina Faso														
27372	Rebko	Burkina Faso														
27373	SG 6249	Burkina Faso														
27374	Dighe	Burkina Faso														
27375	Prontigou	Burkina Faso														
27376	SG 6255	Burkina Faso														
27377	SG 6256	Burkina Faso														
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27381	SG 6257	Burkina Faso														
27382	Homonigou	Burkina Faso														
27383	Rebko	Burkina Faso														
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27388	Rebko	Burkina Faso														
27389	SG 6268	Burkina Faso														
27390	SG 6269	Burkina Faso														
27391	Rebko	Burkina Faso														
27392	Yeni Ky	Burkina Faso														
27393	Kazungu	Burkina Faso														
27394	Kazungu	Burkina Faso														
27395	Kazungu	Burkina Faso														
27396	Kazungu	Burkina Faso														
27397	Waghi	Burkina Faso														
27398	Waghi	Burkina Faso														
27399	Ny 6280	Burkina Faso														
27400	Kulere	Burkina Faso														
27401	Ladjan	Burkina Faso														
27402	Sikou niango	Burkina Faso														
27403	Kadaga	Burkina Faso														
27404	Aboko niango	Burkina Faso														
27405	Kazungu	Burkina Faso														
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27731	PC1 110	Sierra Leone	5(1)					27827	Therapsid	Hungary	5(1)						
27732	PCT 101	Sierra Leone	5(1)					27828	Chorophyta	Hungary	5(1)						
27733	PC1 112	Sierra Leone	5(1)					27829	Myriophyta	Hungary	5(1)						
27734	PC1 113	Sierra Leone	5(1)					27830	Reptimorph	Hungary	5(1)				3432		
27735	PC1 115	Sierra Leone	5(1)					27831	Sarothamnos	Hungary	5(1)						
27736	PC1 116	Sierra Leone	5(1)					27832	Sarothamnos	Hungary	5(1)						
27737	PC1 117	Sierra Leone	5(1)					27833	Larva	Hungary	5(1)						
27738	PC1 118	Sierra Leone	5(1)					27834	Tril. 14	Hungary	5(1)						
27739	PC1 119	Sierra Leone	5(1)					27835	Tril. 16	Hungary	5(1)						
27740	PC1 120	Sierra Leone	5(1)					27836	Blackbell. Larva	Hungary	5(1)						
27741	PC1 121	Sierra Leone	5(1)					27837	Barna	Hungary	5(1)						
27742	PC1 122	Sierra Leone	5(1)					27838	Oni. White mouset	Hungary	5(1)						
27743	PC1 123	Sierra Leone	5(1)					27839	Cody	Hungary	5(1)						
27744	PC1 124	Sierra Leone	5(1)					27840	Du-Si Zi	Hungary	5(1)						
27745	PC1 125	Sierra Leone	5(1)					27841	Oni. F. sals. Hoggii	Hungary	5(1)						
27746	PC1 126	Sierra Leone	5(1)					27842	Dakos	Hungary	5(1)						
27747	PC1 127	Sierra Leone	5(1)					27843	F. 12-10	Hungary	5(1)						
27748	PC1 128	Sierra Leone	5(1)					27844	F. 12-10	Hungary	5(1)						
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27750	PC1 130	Sierra Leone	5(1)					27846	F. 12-10	Hungary	5(1)						
27751	PC1 131	Sierra Leone	5(1)					27847	F. 12-10	Hungary	5(1)						
27752	PC1 132	Sierra Leone	5(1)					27848	F. 12-10	Hungary	5(1)						
27753	PC1 133	Sierra Leone	5(1)					27849	F. 12-10	Hungary	5(1)						
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27771	PC1 151	Sierra Leone	5(1)					27867	F. 12-10	Hungary	5(1)						
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27774	PC1 154	Sierra Leone	5(1)					27870	F. 12-10	Hungary	5(1)						
27775	PC1 155	Sierra Leone	5(1)					27871	F. 12-10	Hungary	5(1)						
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27778	PC1 158	Sierra Leone	5(1)					27874	F. 12-10	Hungary	5(1)						
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27785	PC1 165	Sierra Leone	5(1)					27881	F. 12-10	Hungary	5(1)						
27786	PC1 166	Sierra Leone	5(1)					27882	F. 12-10	Hungary	5(1)						
27787	PC1 167	Sierra Leone	5(1)					27883	F. 12-10	Hungary	5(1)						
27788	PC1 168	Sierra Leone	5(1)					27884	F. 12-10	Hungary	5(1)						
27789	PC1 169	Sierra Leone	5(1)					27885	F. 12-10	Hungary	5(1)						
27790	PC1 170	Sierra Leone	5(1)					27886	F. 12-10	Hungary	5(1)						
27791	PC1 171	Sierra Leone	5(1)					27887	F. 12-10	Hungary	5(1)						
27792	PC1 172	Sierra Leone	5(1)					27888	F. 12-10	Hungary	5(1)						
27793	PC1 173	Sierra Leone	5(1)					27889	F. 12-10	Hungary	5(1)						
27794	PC1 174	Sierra Leone	5(1)					27890	F. 12-10	Hungary	5(1)						
27795	PC1 175	Sierra Leone	5(1)					27891	F. 12-10	Hungary	5(1)						
27796	PC1 176	Sierra Leone	5(1)					27892	F. 12-10	Hungary	5(1)						
27797	PC1 177	Sierra Leone	5(1)					27893	F. 12-10	Hungary	5(1)						
27798	PC1 178	Sierra Leone	5(1)					27894	F. 12-10	Hungary	5(1)						
27799	PC1 179	Sierra Leone	5(1)					27895	F. 12-10	Hungary	5(1)						
27800	PC1 180	Sierra Leone	5(1)					27896	F. 12-10	Hungary	5(1)						
27801	PC1 181	Sierra Leone	5(1)					27897	F. 12-10	Hungary	5(1)						
27802	PC1 182	Sierra Leone	5(1)					27898	F. 12-10	Hungary	5(1)						
27803	PC1 183	Sierra Leone	5(1)					27899	F. 12-10	Hungary	5(1)						
27804	PC1 184	Sierra Leone	5(1)					27900	F. 12-10	Hungary	5(1)						
27805	PC1 185	Sierra Leone	5(1)					27901	F. 12-10	Hungary	5(1)						
27806	PC1 186	Sierra Leone	5(1)					27902	F. 12-10	Hungary	5(1)						
27807	PC1 187	Sierra Leone	5(1)					27903	F. 12-10	Hungary	5(1)						
27808	PC1 188	Sierra Leone	5(1)					27904	F. 12-10	Hungary	5(1)						
27809	PC1 189	Sierra Leone	5(1)					27905	F. 12-10	Hungary	5(1)						
27810	PC1 190	Sierra Leone	5(1)					27906	F. 12-10	Hungary	5(1)						
27811	PC1 191	Sierra Leone	5(1)					27907	F. 12-10	Hungary	5(1)						
27812	PC1 192	Sierra Leone	5(1)					27908	F. 12-10	Hungary	5(1)						
27813	PC1 193	Sierra Leone	5(1)					27909	F. 12-10	Hungary	5(1)						
27814	PC1 194	Sierra Leone	5(1)					27910	F. 12-10	Hungary	5(1)						
27815	PC1 195	Sierra Leone	5(1)					27911	F. 12-10	Hungary	5(1)						
27816	PC1 196	Sierra Leone	5(1)					27912	F. 12-10	Hungary	5(1)						
27817	PC1 197	Sierra Leone	5(1)					27913	F. 12-10	Hungary	5(1)						
27818	PC1 198	Sierra Leone	5(1)					27914	F. 12-10	Hungary	5(1)						
27819	PC1 199	Sierra Leone	5(1)					27915	F. 12-10	Hungary	5(1)						
27820	PC1 200	Sierra Leone	5(1)					27916	F. 12-10	Hungary	5(1)						
27821	PC1 201	Sierra Leone	5(1)					27917	F. 12-10	Hungary	5(1)						

IS No	Alternate accession identifier	Source country	R SP SH MD 110						UK No	Alternate accession identifier	Source country	SP SH MD 110					
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27905	JM 4643	South Africa	4(1)	-	4(2)	-	-	-	27004	YSC 1796	Yemen	-	-	-	-	-	5(1)
27906	JM 4670	South Africa	5(1)	-	5(1)	-	-	-	27005	YSC 1797	Yemen	-	-	-	-	-	5(1)
27907	JM 4671	South Africa	5(1)	-	5(1)	-	-	-	27006	YSC 1798	Yemen	-	-	-	-	-	5(1)
27908	JM 4672	South Africa	4(1)	-	5(1)	-	-	-	27007	YSC 1799	Yemen	-	-	-	-	-	5(1)
27909	JM 4673	South Africa	5(1)	-	5(1)	-	-	-	27008	YSC 1800	Yemen	-	-	-	-	-	5(1)
27910	JM 4677	South Africa	3(1)	-	-	-	-	-	27009	YSC 1801	Yemen	-	-	-	-	-	5(1)
27911	JM 4679	South Africa	2(1)	4(1)	5(1)	-	-	-	27010	YSC 1802	Yemen	-	-	-	-	-	5(1)
27912	JM 4682	South Africa	2(1)	4(1)	5(1)	-	-	-	27011	YSC 1803	Yemen	-	-	-	-	-	5(1)
27913	JM 4683	South Africa	(1)	2(1)	5(1)	-	-	-	27012	YSC 1804	Yemen	-	-	-	-	-	5(1)
27914	JM 4684	South Africa	3(1)	-	2(1)	-	-	-	27013	YSC 1805	Yemen	-	-	-	-	-	5(1)
27915	JM 4289	South Africa	2(1)	-	5(1)	-	-	-	27014	YSC 1807	Yemen	-	-	-	-	-	5(1)
27916	JM 4696	South Africa	3(1)	-	4(1)	-	5(1)	-	27015	YSC 1207	Yemen	-	-	-	-	-	5(1)
27917	JM 4917	South Africa	4(1)	-	5(1)	-	-	-	27017	YSC 1241	Yemen	-	-	-	-	-	5(1)
27918	SI BL 2010	U.S.A.	4(1)	-	5(1)	-	-	-	27018	YSC 1272	Yemen	-	-	-	-	-	5(1)
27919	SI BL 2080	U.S.A.	4(1)	-	5(1)	-	-	-	27019	YSC 1273	Yemen	-	-	-	-	-	5(1)
27920	SI BL 2104	U.S.A.	4(1)	-	5(1)	-	-	-	27020	YSC 1274	Yemen	-	-	-	-	-	5(1)
27921	Var dakar	Kenya	5(1)	-	5(1)	-	-	-	27021	YSC 1275	Yemen	-	-	-	-	-	5(1)
27922	Var hendu	Kenya	5(1)	-	4(1)	-	-	-	27022	YSC 1216	Yemen	-	-	-	-	-	5(1)
27923	Var mbu	Kenya	5(1)	-	5(1)	-	-	-	27023	YSC 1217	Yemen	-	-	-	-	-	5(1)
27924	Var asarima	Kenya	5(1)	-	-	-	-	-	27024	YSC 1219	Yemen	-	-	-	-	-	4(2)
27925	Var kaharga	Kenya	5(1)	-	5(1)	-	-	-	27025	YSC 1220	Yemen	-	-	-	-	-	5(1)
27926	Var owarika	Kenya	5(1)	-	2(1)	-	-	-	27026	YSC 1221	Yemen	-	-	-	-	-	5(1)
27927	Var mshira	Kenya	5(1)	-	5(1)	-	-	-	27027	YSC 1229	Yemen	-	-	-	-	-	5(1)
27928	No 1	China	4(1)	-	4(2)	-	5(1)	5(1)	27029	YSC 1224	Yemen	-	-	-	-	-	5(1)
27929	No 2	China	2(1)	5(1)	5(1)	-	5(1)	5(1)	27030	YSC 1225	Yemen	-	-	-	-	-	5(1)
27930	No 3	China	3(1)	-	4(1)	-	5(1)	5(1)	27031	YSC 1226	Yemen	-	-	-	-	-	5(1)
27931	No 4	China	2(1)	-	(1)	-	5(1)	5(1)	27032	YSC 1227	Yemen	-	-	-	-	-	5(1)
27932	No 5	China	-	3(1)	5(1)	-	5(1)	5(1)	27034	YSC 1228	Yemen	-	-	-	-	-	5(1)
27933	No 6	China	2(1)	-	4(1)	-	5(1)	5(1)	27035	YSC 1229	Yemen	-	-	-	-	-	5(1)
27934	No 7	China	-	5(1)	4(1)	-	5(1)	5(1)	27036	YSC 1230	Yemen	-	-	-	-	-	5(1)
27935	No 10	China	(1)	5(1)	5(1)	-	5(1)	5(1)	27036	YSC 1231	Yemen	-	-	-	-	-	5(1)
27936	No 11	China	(1)	2(1)	2(1)	-	5(1)	5(1)	27037	YSC 1232	Yemen	-	-	-	-	-	5(1)
27937	No 12	China	(1)	2(1)	(1)	-	5(1)	-	27038	YSC 1233	Yemen	-	-	-	-	-	5(1)
27938	No 12	China	2(1)	-	4(2)	-	-	-	27039	YSC 1234	Yemen	-	-	-	-	-	5(1)
27939	No 12	China	2(1)	-	5(1)	-	5(1)	5(1)	27040	YSC 1235	Yemen	-	-	-	-	-	5(1)
27940	No 14	China	5(1)	-	-	-	5(1)	5(1)	27041	YSC 1240	Yemen	-	-	-	-	-	5(1)
27941	Mfangshila	Cote d'Ivoire	4(1)	-	-	-	-	-	27042	YSC 1248	Yemen	-	-	-	-	-	5(1)
27941	YSC 105	Yemen	-	-	5(1)	-	-	-	27047	YSC 1243	Yemen	-	-	-	-	-	5(1)
27945	YSC 126	Yemen	-	-	5(1)	-	-	-	27048	YSC 1244	Yemen	-	-	-	-	-	5(1)
27948	YSC 482	Yemen	-	-	5(1)	-	-	-	27049	YSC 1245	Yemen	-	-	-	-	-	5(1)
27949	YSC 548	Yemen	-	-	5(1)	-	-	-	27050	YSC 1246	Yemen	-	-	-	-	-	5(1)
27950	YSC 482	Yemen	-	-	2(1)	-	-	-	27051	YSC 1247	Yemen	-	-	-	-	-	5(1)
27951	YSC 513	Yemen	-	-	5(1)	-	-	-	27054	YSC 1251	Yemen	-	-	-	-	-	4(1)
27952	YSC 541	Yemen	-	-	4(2)	-	-	-	27055	YSC 1252	Yemen	-	-	-	-	-	5(1)
27953	YSC 236	Yemen	-	-	2(1)	-	-	-	27056	YSC 1253	Yemen	-	-	-	-	-	4(2)
27953	YSC 280	Yemen	-	-	4(1)	-	-	-	27057	YSC 1255	Yemen	-	-	-	-	-	5(1)
27954	YSC 767	Yemen	-	-	4(1)	-	-	-	27058	YSC 1257	Yemen	-	-	-	-	-	4(1)
27954	YSC 801	Yemen	-	-	5(1)	-	-	-	27059	YSC 1258	Yemen	-	-	-	-	-	5(1)
27955	YSC 808	Yemen	-	-	5(1)	-	-	-	27063	YSC 1360	Yemen	-	-	-	-	-	5(1)
27960	YSC 822	Yemen	-	-	2(1)	-	-	-	27064	YSC 1263	Yemen	-	-	-	-	-	2(1)
27962	YSC 891	Yemen	-	-	5(1)	-	-	-	27065	YSC 1269	Yemen	-	-	-	-	-	5(1)
27963	YSC 929	Yemen	-	-	4(1)	-	-	-	27066	YSC 1270	Yemen	-	-	-	-	-	5(1)
27964	YSC 990	Yemen	-	-	5(1)	-	-	-	27068	YSC 1272	Yemen	-	-	-	-	-	5(1)
27965	YSC 1060	Yemen	-	-	5(1)	-	-	-	27069	YSC 1276	Yemen	-	-	-	-	-	4(1)
27966	YSC 1147	Yemen	-	-	5(1)	-	-	-	27070	YSC 1279	Yemen	-	-	-	-	-	5(1)
27967	YSC 1148	Yemen	-	-	4(1)	-	-	-	27071	YSC 1281	Yemen	-	-	-	-	-	5(1)
27968	YSC 1149	Yemen	-	-	4(1)	-	-	-	27072	YSC 1284	Yemen	-	-	-	-	-	4(2)
27968	YSC 1150	Yemen	-	-	5(1)	-	-	-	27074	YSC 1286	Yemen	-	-	-	-	-	2(1)
27970	YSC 1151	Yemen	-	-	5(1)	-	-	-	27075	YSC 1287	Yemen	-	-	-	-	-	5(1)
27971	YSC 1152	Yemen	-	-	4(1)	-	-	-	27076	YSC 1288	Yemen	-	-	-	-	-	3(1)
27972	YSC 1154	Yemen	-	-	4(1)	-	-	-	27077	YSC 1291	Yemen	-	-	-	-	-	5(1)
27973	YSC 1155	Yemen	-	-	5(1)	-	-	-	27078	YSC 1291	Yemen	-	-	-	-	-	4(1)
27974	YSC 1156	Yemen	-	-	5(1)	-	-	-	27079	YSC 1294	Yemen	-	-	-	-	-	5(1)
27975	YSC 1157	Yemen	-	-	5(1)	-	-	-	27080	YSC 1296	Yemen	-	-	-	-	-	4(1)
27979	YSC 1161	Yemen	-	-	4(1)	-	-	-	27084	YSC 1301	Yemen	-	-	-	-	-	5(1)
27980	YSC 1162	Yemen	-	-	2(1)	-	-	-	27085	YSC 1302	Yemen	-	-	-	-	-	4(1)
27981	YSC 1163	Yemen	-	-	4(1)	-	-	-	27086	YSC 1304	Yemen	-	-	-	-	-	5(1)
27985	YSC 1167	Yemen	-	-	5(1)	-	-	-	27087	YSC 1305	Yemen	-	-	-	-	-	5(1)
27986	YSC 1168	Yemen	-	-	5(1)	-	-	-	27088	YSC 1306	Yemen	-	-	-	-	-	5(1)
27987	YSC 1169	Yemen	-	-	5(1)	-	-	-	27089	YSC 1307	Yemen	-	-	-	-	-	4(2)
27988	YSC 1170	Yemen	-	-	5(1)	-	-	-	27090	YSC 1308	Yemen	-	-	-	-	-	5(1)
27993	YSC 1172	Yemen	-	-	3(1)	-	-	-	27091	YSC 1313	Yemen	-	-	-	-	-	3(1)
27994	YSC 1176	Yemen	-	-	5(1)	-	-	-	27092	YSC 1314	Yemen	-	-	-	-	-	5(1)
27995	YSC 1180	Yemen	-	-	5(1)	-	-	-	27094	YSC 1322	Yemen	-	-	-	-	-	3(1)
27996	YSC 1181	Yemen	-	-	5(1)	-	-	-	27094	YSC 1324	Yemen	-	-	-	-	-	4(2)
27997	YSC 1184	Yemen	-	-	4(1)	-	-	-	27095	YSC 1327	Yemen	-	-	-	-	-	4(1)
27998	YSC 1185	Yemen	-	-	5(1)	-	-	-	27096	YSC 1332	Yemen	-	-	-	-	-	4(1)
27999	YSC 1186	Yemen	-	-	5(1)	-	-	-	27097	YSC 1333	Yemen	-	-	-	-	-	2(1)
28000	YSC 1188	Yemen	-	-	2(1)	-	-	-	27098	YSC 1335	Yemen	-	-	-	-	-	5(1)
28001	YSC 1189	Yemen	-	-	4(1)	-	-	-	27099	YSC 1118	Yemen	-	-	-	-	-	5(1)
28002	YSC 1191	Yemen	-	-	3(1)	-	-	-	28100	YSC 1341	Yemen	-	-	-	-	-	5(1)
28003	YSC 1194	Yemen	-	-	5(1)	-	-	-	28103	YSC 1342	Yemen	-	-	-	-	-	4(1)

JIS No	Alternative accession	Source country	SF				MD		JIS No	Alternative accession	Source country	SF				MD		JIS
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24103	YSC 1341	Yemen						28106	YSC 1483	Yemen								
24104	YSC 1344	Yemen						28107	YSC 1484	Yemen								
24105	YSC 1345	Yemen						28108	YSC 1485	Yemen								
24109	YSC 1347	Yemen						28110	YSC 1490	Yemen								
24110	YSC 1349	Yemen						28201	YSC 1496	Yemen								
24111	YSC 1352	Yemen						28202	YSC 1498	Yemen								
24112	YSC 1353	Yemen						28203	YSC 1499	Yemen								
24113	YSC 1357	Yemen						28204	YSC 1502	Yemen								
24114	YSC 1358	Yemen						28205	YSC 1503	Yemen								
24115	YSC 1359	Yemen						28206	YSC 1504	Yemen								
24116	YSC 1367	Yemen						28207	YSC 1505	Yemen								
24117	YSC 1369	Yemen						28208	YSC 1506	Yemen								
24118	YSC 1371	Yemen						28209	YSC 1507	Yemen								
24119	YSC 1368	Yemen						28210	YSC 1508	Yemen								
24120	YSC 1369	Yemen						28211	YSC 1510	Yemen								
24121	YSC 1371	Yemen						28212	YSC 1511	Yemen								
24122	YSC 1372	Yemen						28213	YSC 1512	Yemen								
24123	YSC 1376	Yemen						28214	YSC 1513	Yemen								
24124	YSC 1377	Yemen						28215	YSC 1514	Yemen								
24125	YSC 1378	Yemen						28216	YSC 1515	Yemen								
24126	YSC 1379	Yemen						28217	YSC 1520	Yemen								
24127	YSC 1380	Yemen						28218	YSC 1523	Yemen								
24128	YSC 1381	Yemen						28219	YSC 1526	Yemen								
24129	YSC 1383	Yemen						28220	YSC 1527	Yemen								
24130	YSC 1384	Yemen						28221	YSC 1531	Yemen								
24131	YSC 1386	Yemen						28222	YSC 1532	Yemen								
24132	YSC 1388	Yemen						28223	YSC 1533	Yemen								
24133	YSC 1389	Yemen						28224	YSC 1534	Yemen								
24134	YSC 1390	Yemen						28225	YSC 1535	Yemen								
24135	YSC 1396	Yemen						28226	YSC 1536	Yemen								
24136	YSC 1397	Yemen						28227	YSC 1537	Yemen								
24137	YSC 1398	Yemen						28228	YSC 1542	Yemen								
24138	YSC 1399	Yemen						28229	YSC 1543	Yemen								
24139	YSC 1400	Yemen						28230	YSC 1544	Yemen								
24140	YSC 1402	Yemen						28231	YSC 1545	Yemen								
24141	YSC 1405	Yemen						28232	YSC 1548	Yemen								
24142	YSC 1403	Yemen						28233	YSC 1549	Yemen								
24143	YSC 1405	Yemen						28234	YSC 1550	Yemen								
24144	YSC 1406	Yemen						28235	YSC 1551	Yemen								
24145	YSC 1407	Yemen						28236	YSC 1552	Yemen								
24146	YSC 1408	Yemen						28237	YSC 1553	Yemen								
24147	YSC 1409	Yemen						28238	YSC 1554	Yemen								
24148	YSC 1410	Yemen						28239	YSC 1555	Yemen								
24149	YSC 1411	Yemen						28240	YSC 1556	Yemen								
24150	YSC 1412	Yemen						28241	YSC 1557	Yemen								
24151	YSC 1413	Yemen						28242	YSC 1558	Yemen								
24152	YSC 1414	Yemen						28243	YSC 1559	Yemen								
24153	YSC 1415	Yemen						28244	YSC 1560	Yemen								
24154	YSC 1416	Yemen						28245	YSC 1561	Yemen								
24155	YSC 1417	Yemen						28246	YSC 1562	Yemen								
24156	YSC 1420	Yemen						28247	YSC 1563	Yemen								
24157	YSC 1421	Yemen						28248	YSC 1564	Yemen								
24158	YSC 1422	Yemen						28249	YSC 1565	Yemen								
24159	YSC 1423	Yemen						28250	YSC 1566	Yemen								
24160	YSC 1424	Yemen						28251	YSC 1567	Yemen								
24161	YSC 1425	Yemen						28252	YSC 1568	Yemen								
24162	YSC 1426	Yemen						28253	YSC 1569	Yemen								
24163	YSC 1427	Yemen						28254	YSC 1570	Yemen								
24164	YSC 1430	Yemen						28255	YSC 1571	Yemen								
24165	YSC 1431	Yemen						28256	YSC 1572	Yemen								
24166	YSC 1432	Yemen						28257	YSC 1573	Yemen								
24167	YSC 1433	Yemen						28258	YSC 1574	Yemen								
24168	YSC 1434	Yemen						28259	YSC 1575	Yemen								
24169	YSC 1435	Yemen						28260	YSC 1576	Yemen								
24170	YSC 1436	Yemen						28261	YSC 1577	Yemen								
24171	YSC 1437	Yemen						28262	YSC 1578	Yemen								
24172	YSC 1438	Yemen						28263	YSC 1579	Yemen								
24173	YSC 1439	Yemen						28264	YSC 1580	Yemen								
24174	YSC 1440	Yemen						28265	YSC 1581	Yemen								
24175	YSC 1441	Yemen						28266	YSC 1582	Yemen								
24176	YSC 1442	Yemen						28267	YSC 1583	Yemen								
24177	YSC 1443	Yemen						28268	YSC 1584	Yemen								
24178	YSC 1444	Yemen						28269	YSC 1585	Yemen								
24179	YSC 1445	Yemen						28270	YSC 1586	Yemen								
24180	YSC 1446	Yemen						28271	YSC 1587	Yemen								
24181	YSC 1447	Yemen						28272	YSC 1588	Yemen								
24182	YSC 1448	Yemen						28273	YSC 1589	Yemen								
24183	YSC 1449	Yemen						28274	YSC 1590	Yemen								
24184	YSC 1450	Yemen						28275	YSC 1591	Yemen								
24185	YSC 1451	Yemen						28276	YSC 1592	Yemen								
24186	YSC 1452	Yemen						28277	YSC 1593	Yemen								
24187	YSC 1453	Yemen						28278	YSC 1594	Yemen								
24188	YSC 1454	Yemen						28279	YSC 1595	Yemen								
24189	YSC 1455	Yemen						28280	YSC 1596	Yemen								
24190	YSC 1456	Yemen						28281	YSC 1597	Yemen								
24191	YSC 1457	Yemen						28282	YSC 1598	Yemen								
24192	YSC 1458	Yemen						28283	YSC 1599	Yemen								
24193	YSC 1459	Yemen						28284	YSC 1600	Yemen								

IS No	Alternative accession identifier	Source country	SF				SH				IS No	Alternative accession identifier	Source country	KF				MD	HB	
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28488	YSC 1986	Yemen	3(1)	-	-	-	-	-	-	-	28589	YSC 2044	Yemen	-	-	-	-	-	-	-
28489	YSC 1993	Yemen	4(1)	-	-	-	-	-	-	-	28590	YSC 2047	Yemen	SCD	-	-	-	-	-	-
28490	YSC 1982	Yemen	3(1)	-	-	-	-	-	-	-	28597	YSC 2053	Yemen	-	-	-	-	-	-	-
28491	YSC 1991	Yemen	4(3)	-	-	-	-	-	-	-	28598	YSC 2060	Yemen	-	-	-	-	-	-	-
28492	YSC 1994	Yemen	4(1)	-	-	-	-	-	-	-	28599	YSC 2063	Yemen	-	-	-	-	-	-	-
28493	YSC 1995	Yemen	3(1)	-	-	-	-	-	-	-	28599	YSC 2069	Yemen	-	-	-	-	-	-	-
28494	YSC 1996	Yemen	-	-	-	-	-	-	-	-	28599	YSC 2069	Yemen	-	-	-	-	-	-	-
28496	YSC 1988	Yemen	-	-	-	-	-	-	-	-	28599	YSC 2070	Yemen	-	-	-	-	-	-	-
28500	YSC 1912	Yemen	4(1)	-	-	-	-	-	-	-	28599	YSC 2071	Yemen	-	-	-	-	-	-	-
28501	YSC 2013	Yemen	4(1)	-	-	-	-	-	-	-	28599	YSC 2075	Yemen	-	-	-	-	-	-	-
28502	YSC 1914	Yemen	3(1)	-	-	-	-	-	-	-	28603	YSC 2076	Yemen	-	-	-	-	-	-	-
28503	YSC 1917	Yemen	3(1)	-	-	-	-	-	-	-	28602	YSC 2075	Yemen	-	-	-	-	-	-	-
28506	YSC 1918	Yemen	3(1)	-	-	-	-	-	-	-	28603	YSC 2076	Yemen	-	-	-	-	-	-	-
28509	YSC 1921	Yemen	3(1)	-	-	-	-	-	-	-	28604	YSC 2077	Yemen	-	-	-	-	-	-	-
28510	YSC 1922	Yemen	3(1)	-	-	-	-	-	-	-	28605	YSC 2079	Yemen	-	-	-	-	-	-	-
28511	YSC 1923	Yemen	3(1)	-	-	-	-	-	-	-	28606	YSC 2080	Yemen	-	-	-	-	-	-	-
28512	YSC 1926	Yemen	-	-	-	-	-	-	-	-	28607	YSC 2083	Yemen	4(1)	-	-	-	-	-	-
28513	YSC 1927	Yemen	3(1)	-	-	-	-	-	-	-	28608	YSC 2084	Yemen	-	-	-	-	-	-	-
28514	YSC 1928	Yemen	-	-	-	-	-	-	-	-	28609	YSC 2085	Yemen	3(1)	-	-	-	-	-	-
28515	YSC 1929	Yemen	-	-	-	-	-	-	-	-	28610	YSC 2092	Yemen	-	-	-	-	-	-	-
28517	YSC 1931	Yemen	3(1)	-	-	-	-	-	-	-	28612	YSC 2098	Yemen	-	-	-	-	-	-	-
28518	YSC 1931	Yemen	-	-	-	-	-	-	-	-	28612	YSC 2098	Yemen	SCD	-	-	-	-	-	-
28519	YSC 1937	Yemen	-	-	-	-	-	-	-	-	28613	YSC 2099	Yemen	-	-	-	-	-	-	-
28520	YSC 1938	Yemen	3(1)	-	-	-	-	-	-	-	28614	YSC 2099	Yemen	-	-	-	-	-	-	-
28521	YSC 1939	Yemen	3(1)	-	-	-	-	-	-	-	28615	YSC 2099	Yemen	-	-	-	-	-	-	-
28522	YSC 1943	Yemen	3(1)	-	-	-	-	-	-	-	28616	YSC 2099	Yemen	-	-	-	-	-	-	-
28523	YSC 1944	Yemen	3(1)	-	-	-	-	-	-	-	28617	YSC 2099	Yemen	-	-	-	-	-	-	-
28524	YSC 1946	Yemen	-	-	-	-	-	-	-	-	28618	YSC 2099	Yemen	-	-	-	-	-	-	-
28525	YSC 1949	Yemen	-	-	-	-	-	-	-	-	28619	YSC 2099	Yemen	-	-	-	-	-	-	-
28526	YSC 1950	Yemen	3(1)	-	-	-	-	-	-	-	28620	YSC 2099	Yemen	-	-	-	-	-	-	-
28527	YSC 1951	Yemen	-	-	-	-	-	-	-	-	28621	YSC 2100	Yemen	-	-	-	-	-	-	-
28528	YSC 1952	Yemen	-	-	-	-	-	-	-	-	28622	YSC 2102	Yemen	-	-	-	-	-	-	-
28529	YSC 1954-1	Yemen	3(1)	-	-	-	-	-	-	-	28623	YSC 2106	Yemen	-	-	-	-	-	-	-
28531	YSC 1954-2	Yemen	3(1)	4(1)	-	-	-	-	-	-	28625	YSC 2108	Yemen	-	-	-	-	-	-	-
28532	YSC 1955	Yemen	-	-	-	-	-	-	-	-	28626	YSC 2109	Yemen	-	-	-	-	-	-	-
28533	YSC 1956	Yemen	4(1)	-	-	-	-	-	-	-	28627	YSC 2110	Yemen	-	-	-	-	-	-	-
28534	YSC 1957	Yemen	3(3)	-	-	-	-	-	-	-	28628	YSC 2112	Yemen	-	-	-	-	-	-	-
28535	YSC 1960	Yemen	-	-	-	-	-	-	-	-	28629	YSC 2113	Yemen	-	-	-	-	-	-	-
28536	YSC 1961	Yemen	3(1)	-	-	-	-	-	-	-	28630	YSC 2115	Yemen	-	-	-	-	-	-	-
28537	YSC 1962	Yemen	3(1)	-	-	-	-	-	-	-	28634	YSC 2120	Yemen	-	-	-	-	-	-	-
28538	YSC 1963	Yemen	3(1)	-	-	-	-	-	-	-	28635	YSC 2122	Yemen	-	-	-	-	-	-	-
28539	YSC 1964	Yemen	3(1)	-	-	-	-	-	-	-	28636	YSC 2122	Yemen	-	-	-	-	-	-	-
28540	YSC 1967	Yemen	-	-	-	-	-	-	-	-	28637	YSC 2123	Yemen	-	-	-	-	-	-	-
28541	YSC 1968	Yemen	-	-	-	-	-	-	-	-	28638	YSC 2124	Yemen	-	-	-	-	-	-	-
28542	YSC 1969	Yemen	3(1)	3(1)	4(1)	-	-	-	-	-	28639	YSC 2125	Yemen	-	-	-	-	-	-	-
28543	YSC 1972	Yemen	-	-	-	-	-	-	-	-	28641	YSC 2126	Yemen	-	-	-	-	-	-	-
28546	YSC 1973	Yemen	-	-	-	-	-	-	-	-	28643	YSC 2127	Yemen	-	-	-	-	-	-	-
28547	YSC 1974	Yemen	-	-	-	-	-	-	-	-	28645	YSC 2129	Yemen	-	-	-	-	-	-	-
28548	YSC 1975	Yemen	-	-	-	-	-	-	-	-	28647	YSC 2132	Yemen	-	-	-	-	-	-	-
28549	YSC 1977	Yemen	-	-	-	-	-	-	-	-	28648	YSC 2133	Yemen	-	-	-	-	-	-	-
28551	YSC 1979	Yemen	3(1)	-	-	-	-	-	-	-	28647	YSC 2134	Yemen	-	-	-	-	-	-	-
28553	YSC 1980	Yemen	3(1)	-	-	-	-	-	-	-	28648	YSC 2137	Yemen	-	-	-	-	-	-	-
28554	YSC 1984	Yemen	3(1)	-	-	-	-	-	-	-	28649	YSC 2138	Yemen	-	-	-	-	-	-	-
28555	YSC 1990	Yemen	-	-	-	-	-	-	-	-	28650	YSC 2140	Yemen	-	-	-	-	-	-	-
28556	YSC 1992	Yemen	-	-	-	-	-	-	-	-	28651	YSC 2141	Yemen	-	-	-	-	-	-	-
28557	YSC 1991	Yemen	3(1)	-	-	-	-	-	-	-	28652	YSC 2144	Yemen	-	-	-	-	-	-	-
28559	YSC 1991	Yemen	-	-	-	-	-	-	-	-	28653	YSC 2146	Yemen	-	-	-	-	-	-	-
28560	YSC 1993	Yemen	-	-	-	-	-	-	-	-	28654	YSC 2147	Yemen	-	-	-	-	-	-	-
28560	YSC 1990	Yemen	-	-	-	-	-	-	-	-	28655	YSC 2156	Yemen	-	-	-	-	-	-	-
28562	YSC 2003	Yemen	-	-	-	-	-	-	-	-	28656	YSC 2158	Yemen	-	-	-	-	-	-	-
28564	YSC 2004	Yemen	-	-	-	-	-	-	-	-	28657	YSC 2159	Yemen	-	-	-	-	-	-	-
28565	YSC 2006	Yemen	-	-	-	-	-	-	-	-	28659	YSC 2162	Yemen	-	-	-	-	-	-	-
28566	YSC 2007	Yemen	-	-	-	-	-	-	-	-	28660	YSC 2163	Yemen	-	-	-	-	-	-	-
28567	YSC 2008	Yemen	-	-	-	-	-	-	-	-	28661	YSC 2179	Yemen	-	-	-	-	-	-	-
28568	YSC 2009	Yemen	-	-	-	-	-	-	-	-	28662	YSC 2180	Yemen	-	-	-	-	-	-	-
28569	YSC 2010	Yemen	3(1)	-	-	-	-	-	-	-	28663	YSC 2182	Yemen	-	-	-	-	-	-	-
28570	YSC 2011	Yemen	-	-	-	-	-	-	-	-	28664	YSC 2184	Yemen	-	-	-	-	-	-	-
28571	YSC 2016	Yemen	-	-	-	-	-	-	-	-	28665	YSC 2184	Yemen	-	-	-	-	-	-	-
28572	YSC 2017	Yemen	-	-	-	-	-	-	-	-	28666	YSC 2186	Yemen	-	-	-	-	-	-	-
28573	YSC 2018	Yemen	-	-	-	-	-	-	-	-	28667	YSC 2187	Yemen	-	-	-	-	-	-	-
28577	YSC 2019	Yemen	-	-	-	-	-	-	-	-	28669	YSC 2189	Yemen	-	-	-	-	-	-	-
28578	YSC 2020	Yemen	-	-	-	-	-	-	-	-	28670	YSC 2194	Yemen	-	-	-	-	-	-	-
28579	YSC 2022	Yemen	-	-	-	-	-	-	-	-	28671	YSC 2195	Yemen	-	-	-	-	-	-	-
28580	YSC 2023	Yemen	-	-	-	-	-	-	-	-	28671	YSC 2197	Yemen	-	-	-	-	-	-	-
28581	YSC 2024	Yemen	3(1)	-	-	-	-	-	-	-	28674	YSC 2198	Yemen	-	-	-	-	-	-	-
28584	YSC 2027	Yemen	-	-	-	-	-	-	-	-	28675	YSC 2202	Yemen	-	-	-	-	-	-	-
28584	YSC 2028	Yemen	-	-	-	-	-	-	-	-	28676	YSC 2204	Yemen	-	-	-	-	-	-	-
28584	YSC 2043	Yemen	-	-	-	-	-	-	-	-	28677	YSC 2205	Yemen	-	-	-	-	-	-	-
28585	YSC 2047	Yemen	3(1)	-	-	-	-	-	-	-	28678	YSC 2206	Yemen	-	-	-	-	-	-	-
28587	YSC 2049	Yemen	3(1)	-	-	-	-	-	-	-	28679	YSC 2209	Yemen	-	-	-	-	-	-	-
28588	YSC 2043	Yemen	-	-	-	-	-	-	-	-	28680	YSC 2210	Yemen	-	-	-	-	-	-	-

IS No	Alternate accession identifier	Source country	SB					IS No	Alternate accession identifier	Source country	SB				
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26681	YSC 2217	Yemen			211			26776	YSC 2505	Yemen					
26682	YSC 2224	Yemen			261			26777	YSC 2503	Yemen					
26683	YSC 2225	Yemen			311			26778	YSC 2530	Yemen					
26685	YSC 2227	Yemen			313			26782	YSC 2537	Yemen					
26686	YSC 2230	Yemen			411			26784	YSC 2538	Yemen					
26688	YSC 2241	Yemen			411			26780	YSA 25 40	Yemen					
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26695	YSC 2271	Yemen			411			26800	YSA 2563	Yemen					
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26697	YSC 2279	Yemen			113			26810	YSA 2571	Yemen					
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IS No	Alternate accession identif.	Source country	SP		M12	I12	IR No	Alternate accession identif.	Source country	R		SR	SB	MD	HB
			R	FR						FR	FR				
28892	YSC 2843	Yemen		5(1)			28896	YSC 4077	Yemen			4(1)			
28894	YSC 2849	Yemen		5(1)			28947	YSC 3079	Yemen			4(1)			
28895	YSC 2855	Yemen		5(1)			28984	YSC 3081	Yemen			5(1)			
28896	YSC 2861	Yemen		5(1)			28989	YSC 3083	Yemen			5(1)			
28897	YSC 2863	Yemen		5(1)			28991	YSC 3085	Yemen			4(1)			
28898	YSC 2867	Yemen		4(1)			28992	YSC 3087	Yemen			5(1)			
28899	YSC 2868	Yemen		5(1)			28997	YSC 3089	Yemen			3(1)			
28900	YSC 2871	Yemen		4(1)			28998	AMM 110	Zimbabwe			5(1)			
28901	YSC 2875	Yemen		5(1)			28999	AMM 18	Zimbabwe			5(1)			
28902	YSC 2876	Yemen		5(1)			29007	AMM 114-209	Zimbabwe			5(1)			
28903	YSC 2879	Yemen		5(1)			29068	AMM 75	Zimbabwe			5(1)			
28904	YSC 2881	Yemen		4(1)			29069	AMM 15.1	Zimbabwe			4(1)			
28905	YSC 2883	Yemen		5(1)			29070	AMM 17	Zimbabwe			2(1)			
28906	YSC 2884	Yemen		4(1)			29072	AMM 23	Zimbabwe			5(1)			
28907	YSC 2885	Yemen		4(1)			29073	AMM 33	Zimbabwe			5(1)			
28908	YSC 2886	Yemen		5(1)			29075	AMM 37	Zimbabwe			2(1)			
28909	YSC 2887	Yemen		5(1)			29076	AMM 38	Zimbabwe			5(1)			
28910	YSC 2889	Yemen		5(1)			29077	AMM 39	Zimbabwe			2(1)			
28911	YSC 2890	Yemen		5(1)			29078	AMM 40	Zimbabwe			5(1)			
28912	YSC 2891	Yemen		5(1)			29079	AMM 43	Zimbabwe			5(1)			
28913	YSC 2892	Yemen		5(1)			29079	AMM 53	Zimbabwe			5(1)			
28914	YSC 2893	Yemen		5(1)			29080	AMM 57	Zimbabwe			5(1)			
28915	YSC 2894	Yemen		5(1)			29081	AMM 59	Zimbabwe			5(1)			
28916	YSC 2895	Yemen		5(1)			29082	AMM 70	Zimbabwe			5(1)			
28917	YSC 2896	Yemen		5(1)			29083	AMM 76	Zimbabwe			5(1)			
28918	YSC 2897	Yemen		5(1)			29084	AMM 77	Zimbabwe			5(1)			
28919	YSC 2898	Yemen		5(1)			29084	AMM 81	Zimbabwe			5(1)			
28920	YSC 2899	Yemen		5(1)			29085	AMM 88	Zimbabwe			5(1)			
28921	YSC 2900	Yemen		5(1)			29086	AMM 91	Zimbabwe			5(1)			
28922	YSC 2901	Yemen		5(1)			29087	AMM 95	Zimbabwe			5(1)			
28923	YSC 2902	Yemen		5(1)			29088	AMM 96.1	Zimbabwe			5(1)			
28924	YSC 2903	Yemen		5(1)			29089	AMM 97	Zimbabwe			5(1)			
28925	YSC 2904	Yemen		5(1)			29089	AMM 111	Zimbabwe			5(1)			
28926	YSC 2905	Yemen		5(1)			29090	AMM 112	Zimbabwe			5(1)			
28927	YSC 2906	Yemen		5(1)			29091	AMM 113	Zimbabwe			5(1)			
28928	YSC 2907	Yemen		5(1)			29092	AMM 118	Zimbabwe			5(1)			
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28930	YSC 2909	Yemen		5(1)			29094	AMM 137	Zimbabwe			5(1)			
28931	YSC 2910	Yemen		5(1)			29095	AMM 140	Zimbabwe			5(1)			
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28938	YSC 2917	Yemen		5(1)			29102	AMM 159	Zimbabwe			5(1)			
28939	YSC 2918	Yemen		5(1)			29103	AMM 159	Zimbabwe			5(1)			
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28942	YSC 2921	Yemen		5(1)			29106	AMM 163	Zimbabwe			5(1)			
28943	YSC 2922	Yemen		5(1)			29107	AMM 164	Zimbabwe			5(1)			
28944	YSC 2923	Yemen		5(1)			29108	AMM 167	Zimbabwe			5(1)			
28945	YSC 2924	Yemen		5(1)			29109	AMM 169	Zimbabwe			5(1)			
28946	YSC 2925	Yemen		5(1)			29110	AMM 170	Zimbabwe			5(1)			
28947	YSC 2926	Yemen		5(1)			29111	AMM 172	Zimbabwe			5(1)			
28948	YSC 2927	Yemen		5(1)			29112	AMM 175	Zimbabwe			5(1)			
28949	YSC 2928	Yemen		5(1)			29113	AMM 176	Zimbabwe			5(1)			
28950	YSC 2929	Yemen		5(1)			29114	AMM 177	Zimbabwe			5(1)			
28951	YSC 2930	Yemen		5(1)			29115	AMM 178	Zimbabwe			5(1)			
28952	YSC 2931	Yemen		5(1)			29116	AMM 179	Zimbabwe			5(1)			
28953	YSC 2932	Yemen		5(1)			29117	AMM 180	Zimbabwe			5(1)			
28954	YSC 2933	Yemen		5(1)			29118	AMM 181	Zimbabwe			5(1)			
28955	YSC 2934	Yemen		5(1)			29119	AMM 182	Zimbabwe			5(1)			
28956	YSC 2935	Yemen		5(1)			29120	AMM 183	Zimbabwe			5(1)			
28957	YSC 2936	Yemen		5(1)			29121	AMM 184	Zimbabwe			5(1)			
28958	YSC 2937	Yemen		5(1)			29122	AMM 185	Zimbabwe			5(1)			
28959	YSC 2938	Yemen		5(1)			29123	AMM 189	Zimbabwe			5(1)			
28960	YSC 2939	Yemen		5(1)			29124	AMM 175	Zimbabwe			5(1)			
28961	YSC 2940	Yemen		5(1)			29125	AMM 176	Zimbabwe			5(1)			
28962	YSC 2941	Yemen		5(1)			29126	AMM 180	Zimbabwe			5(1)			
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28964	YSC 2943	Yemen		5(1)			29128	AMM 192	Zimbabwe			5(1)			
28965	YSC 2944	Yemen		5(1)			29129	AMM 198	Zimbabwe			5(1)			
28966	YSC 2945	Yemen		5(1)			29130	AMM 205	Zimbabwe			5(1)			
28967	YSC 2946	Yemen		5(1)			29131	AMM 206	Zimbabwe			5(1)			
28968	YSC 2947	Yemen		5(1)			29132	AMM 208	Zimbabwe			5(1)			
28969	YSC 2948	Yemen		5(1)			29133	AMM 209	Zimbabwe			5(1)			
28970	YSC 2949	Yemen		5(1)			29134	AMM 211	Zimbabwe			5(1)			
28971	YSC 2950	Yemen		5(1)			29135	AMM 212	Zimbabwe			5(1)			
28972	YSC 2951	Yemen		5(1)			29136	AMM 213	Zimbabwe			5(1)			
28973	YSC 2952	Yemen		5(1)			29137	AMM 217	Zimbabwe			5(1)			
28974	YSC 2953	Yemen		5(1)			29138	AMM 218	Zimbabwe			5(1)			
28975	YSC 2954	Yemen		5(1)			29139	AMM 219-155	Zimbabwe			5(1)			
28976	YSC 2955	Yemen		5(1)			29140	AMM 221	Zimbabwe			5(1)			
28977	YSC 2956	Yemen		5(1)			29141	AMM 225	Zimbabwe			4(1)			
28978	YSC 2957	Yemen		5(1)			29142	AMM 230	Zimbabwe			5(1)			
28979	YSC 2958	Yemen		5(1)			29143	AMM 237	Zimbabwe			5(1)			
28980	YSC 2959	Yemen		5(1)			29144	AMM 236	Zimbabwe			5(1)			
28981	YSC 2960	Yemen		5(1)			29145	AMM 208	Zimbabwe			5(1)			
28982	YSC 2961	Yemen		5(1)			29146	AMM 209	Zimbabwe			5(1)			
28983	YSC 2962	Yemen		5(1)			29147	AMM 211	Zimbabwe			5(1)			
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28985	YSC 2964	Yemen		5(1)			29149	AMM 217	Zimbabwe			5(1)			
28986	YSC 2965	Yemen		5(1)			29150	AMM 245	Zimbabwe			5(1)			
28987	YSC 2966	Yemen		5(1)			29151	AMM 248	Zimbabwe			5(1)			
28988	YSC 2967	Yemen		5(1)			29152	AMM 250	Zimbabwe			5(1)			
28989	YSC 2968	Yemen		5(1)			29153	AMM 251	Zimbabwe			5(1)			
28990	YSC 2969	Yemen		5(1)			29154	AMM 265	Zimbabwe			5(1)			
28991	YSC 2970	Yemen		5(1)			29155	AMM 265	Zimbabwe			5(1)			
28992	YSC 2971	Yemen		5(1)			29156	AMM 267	Zimbabwe			5(1)			
28993	YSC 2972	Yemen		5(1)			29157	AMM 266	Zimbabwe			5(1)			
28994	YSC 2973	Yemen		5(1)			29158	AMM 270	Zimbabwe			5(1)			

IS No	African accession	Source country	SP			SH			MH			IS No	African accession	Source country	SP			SH			MH		
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20709	AMM 272	Zimbabwe				3111						20957	AMM 487	Zimbabwe				3111					
20770	AMM 273	Zimbabwe				3412						20960	AMM 491	Zimbabwe				3111					
20771	AMM 278	Zimbabwe				3412						20981	AMM 492	Zimbabwe				3111					
20774	AMM 281	Zimbabwe				3111						20982	AMM 494	Zimbabwe				3111					
20774	AMM 285	Zimbabwe				3111						20983	AMM 495	Zimbabwe				3111					
20775	AMM 290	Zimbabwe				3111						20985	AMM 497	Zimbabwe				3111					
20776	AMM 290	Zimbabwe				3111						20986	AMM 498	Zimbabwe				3111					
20777	AMM 293	Zimbabwe				3111						20987	AMM 499	Zimbabwe				3111					
20778	AMM 295	Zimbabwe				2311						20988	AMM 500	Zimbabwe				3111					
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20780	AMM 299	Zimbabwe				3111						20990	AMM 502	Zimbabwe				3111					
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20781	AMM 304	Zimbabwe				3412						20992	AMM 504	Zimbabwe				3111					
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20784	AMM 306	Zimbabwe				3111						20994	AMM 509	Zimbabwe				3111					
20785	AMM 313	Zimbabwe				4113						20995	AMM 510	Zimbabwe				3111					
20786	AMM 326	Zimbabwe				3412						20996	AMM 518	Zimbabwe				3111					
20789	AMM 344	Zimbabwe				3111						20997	AMM 519	Zimbabwe				3111					
20790	AMM 347	Zimbabwe				3112						20998	AMM 515	Zimbabwe				3111					
20791	AMM 348	Zimbabwe				3111						20999	AMM 527	Zimbabwe				3111					
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20808	AMM 364	Zimbabwe				3113						20999	AMM 546	Zimbabwe				3111					
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20855	AMM 482	Zimbabwe				3112						20999	AMM 678	Zimbabwe				3111					

IS No	Alternative accession identifier	Source country	SP				MS	HL	IS No	Alternative accession	Source country	SP				MS	HL
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00156	AMM 1133	Zimbabwe			5(1)			00251	AMM 1395	Zimbabwe			5(1)				
00157	AMM 1136	Zimbabwe			4(1)			00252	AMM 1396	Zimbabwe			4(1)				
00158	AMM 1142	Zimbabwe			5(1)			00253	AMM 1397	Zimbabwe			4(1)				
00159	AMM 1145	Zimbabwe			5(1)			00254	AMM 1398	Zimbabwe			4(1)				
00160	AMM 1146	Zimbabwe			5(1)			00255	AMM 1400	Zimbabwe			4(1)				
00161	AMM 1148	Zimbabwe			5(1)			00256	AMM 1401	Zimbabwe			5(1)				
00162	AMM 1149	Zimbabwe			5(1)			00257	AMM 1403	Zimbabwe			2(1)				
00163	AMM 1151	Zimbabwe			5(1)			00258	AMM 1404	Zimbabwe			4(1)				
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00165	AMM 1153	Zimbabwe			5(1)			00260	AMM 1407	Zimbabwe			5(1)				
00166	AMM 1156	Zimbabwe			5(1)			00261	AMM 1408	Zimbabwe			3(1)				
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00175	AMM 1169	Zimbabwe			4(1)			00270	AMM 1447	Zimbabwe			4(1)				
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00196	AMM 2218	Zimbabwe			5(1)			00289	AMM 1506	Zimbabwe			5(1)				
00197	AMM 2220	Zimbabwe			5(1)			00290	AMM 1508	Zimbabwe			5(1)				
00198	AMM 2221	Zimbabwe			5(1)			00291	AMM 1509	Zimbabwe			5(1)				
00199	AMM 2224	Zimbabwe			5(1)			00292	AMM 1510	Zimbabwe			5(1)				
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00201	AAST 248	Zimbabwe			4(1)			00294	AMM 1582	Zimbabwe			4(1)				
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00205	AMM 1240	Zimbabwe			4(1)			00298	AMM 1595	Zimbabwe			5(1)				
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00234	AMM 1311	Zimbabwe			4(1)			00327	AMM 1599	Zimbabwe			5(1)				
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00236	AMM 1311	Zimbabwe			4(1)			00329	AMM 1599	Zimbabwe			5(1)				
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00239	AMM 1311	Zimbabwe			4(1)			00332	AMM 1599	Zimbabwe			5(1)				
00240	AMM 1311	Zimbabwe			4(1)			00333	AMM 1599	Zimbabwe			5(1)				
00241	AMM 1311	Zimbabwe			4(1)			00334	AMM 1599	Zimbabwe			5(1)				
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00247	AMM 1311	Zimbabwe			4(1)			00340	AMM 1599	Zimbabwe			5(1)				
00248	AMM 1311	Zimbabwe			4(1)			00341	AMM 1599	Zimbabwe			5(1)				

IS No	Alternate accession Identifier	Source country	SF					IS No	Alternate accession Identifier	Source country	SF					
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12536	SS 21	Somalia	-	-	4(1)	-	-	12620	SS 108	Somalia	-	-	4(3)	5(1)	-	-
12537	SS 22	Somalia	-	-	3(1)	-	-	12621	SS 109	Somalia	-	-	1(1)	-	-	-
12538	SS 23	Somalia	-	-	2(1)	-	-	12622	SS 110	Somalia	-	-	1(1)	-	-	-
12539	SS 24	Somalia	-	-	2(3)	4(1)	-	12623	SS 111	Somalia	-	-	2(1)	-	-	-
12540	SS 25	Somalia	-	-	4(1)	-	-	12624	SS 112	Somalia	-	-	1(3)	1(1)	-	-
12541	SS 26	Somalia	-	-	3(1)	-	-	12625	SS 113	Somalia	-	-	3(3)	5(1)	-	-
12542	SS 27	Somalia	-	-	3(1)	-	-	12626	SS 114	Somalia	-	-	3(3)	5(1)	-	-
12543	SS 28	Somalia	-	-	1(1)	-	-	12627	SS 115	Somalia	-	-	1(1)	-	-	-
12544	SS 29	Somalia	-	-	1(1)	-	-	12628	SS 116	Somalia	-	-	3(1)	-	-	-
12545	SS 30	Somalia	-	-	4(1)	-	-	12629	SS 117	Somalia	-	-	3(1)	-	-	-
12546	SS 31	Somalia	-	-	3(1)	-	-	12630	SS 118	Somalia	-	-	3(1)	-	-	-
12547	SS 32	Somalia	-	-	1(1)	-	-	12631	SS 119	Somalia	-	-	1(1)	-	-	-
12548	SS 33	Somalia	-	-	1(1)	-	-	12632	SS 120	Somalia	-	-	1(1)	-	-	-
12549	SS 34	Somalia	-	-	1(1)	-	-	12633	SS 121	Somalia	-	-	2(1)	-	-	-
12550	SS 35	Somalia	-	-	3(3)	5(1)	-	12634	SS 122	Somalia	-	-	1(1)	-	-	-
12551	SS 38	Somalia	-	-	3(1)	-	-	12635	SS 123	Somalia	-	-	3(1)	-	-	-
12552	SS 39	Somalia	-	-	2(1)	4(1)	-	12636	SS 124	Somalia	-	-	3(1)	-	-	-
12553	SS 40	Somalia	-	-	2(1)	-	-	12637	SS 124-2	Somalia	-	-	-	-	-	-
12554	SS 41	Somalia	-	-	1(1)	-	-	12638	SS 125-1	Somalia	-	-	2(1)	-	-	-
12555	SS 43	Somalia	-	-	3(1)	-	-	12640	SS 126	Somalia	-	-	1(1)	-	-	-
12556	SS 44	Somalia	-	-	1(1)	-	-	12641	SS 127-1	Somalia	-	-	1(1)	-	-	-
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12558	SS 46	Somalia	-	-	1(1)	-	-	12643	SS 128	Somalia	-	-	1(1)	-	-	-
12559	SS 47	Somalia	-	-	2(1)	-	-	12644	SS 129	Somalia	-	-	1(1)	-	-	-
12560	SS 48	Somalia	-	-	1(1)	-	-	12645	SS 130	Somalia	-	-	2(1)	-	-	-
12561	SS 49	Somalia	-	-	1(1)	-	-	12646	SS 131-1	Somalia	-	-	1(1)	-	-	-
12562	SS 50	Somalia	-	-	1(1)	-	-	12647	SS 131-2	Somalia	-	-	3(1)	-	-	-
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12564	SS 53	Somalia	-	-	1(1)	-	-	12649	SS 133	Somalia	-	-	3(1)	-	-	-
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12567	SS 56	Somalia	-	-	1(1)	-	-	12652	SS 136-1	Somalia	-	-	1(1)	-	-	-
12568	SS 57	Somalia	-	-	1(1)	-	-	12653	SS 136-2	Somalia	-	-	2(1)	-	-	-
12569	SS 58	Somalia	-	-	1(1)	-	-	12654	SS 137	Somalia	-	-	3(1)	-	-	-
12570	SS 59	Somalia	-	-	1(1)	-	-	12655	SS 138	Somalia	-	-	3(1)	-	-	-
12571	SS 60	Somalia	-	-	1(1)	-	-	12656	SS 139-1	Somalia	-	-	3(1)	-	-	-
12572	SS 61	Somalia	-	-	1(1)	-	-	12657	SS 139-2	Somalia	-	-	3(1)	-	-	-
12573	SS 62	Somalia	-	-	2(3)	5(1)	-	12658	SS 140	Somalia	-	-	1(1)	-	-	-
12574	SS 63	Somalia	-	-	2(3)	5(1)	-	12659	SS 141-1	Somalia	-	-	1(1)	-	-	-
12575	SS 64	Somalia	-	-	1(1)	-	-	12660	SS 141-2	Somalia	-	-	3(1)	-	-	-
12576	SS 65	Somalia	-	-	2(1)	-	-	12661	SS 142-1	Somalia	-	-	5(1)	-	-	-
12577	SS 66 (LR)	Somalia	-	-	2(1)	-	-	12662	SS 142-2	Somalia	-	-	5(1)	-	-	-
12578	SS 66 (Brown)	Somalia	-	-	1(1)	-	-	12663	SS 143	Somalia	-	-	5(1)	-	-	-
12579	SS 67	Somalia	-	-	4(1)	-	-	12664	SS 144	Somalia	-	-	4(1)	-	-	-
12580	SS 68	Somalia	-	-	2(1)	-	-	12665	SS 145	Somalia	-	-	3(1)	-	-	-
12581	SS 69	Somalia	-	-	1(1)	-	-	12666	SS 146	Somalia	-	-	3(1)	-	-	-
12582	SS 70	Somalia	-	-	1(1)	-	-	12667	SS 147	Somalia	-	-	1(1)	-	-	-
12583	SS 71	Somalia	-	-	4(1)	-	-	12668	SS 148	Somalia	-	-	3(1)	-	-	-
12584	SS 72	Somalia	-	-	3(1)	-	-	12669	SS 149	Somalia	-	-	2(1)	-	-	-
12585	SS 73	Somalia	-	-	1(1)	-	-	12670	SS 150	Somalia	-	-	3(1)	-	-	-
12586	SS 74	Somalia	-	-	4(1)	-	-	12671	SS 151	Somalia	-	-	2(1)	-	-	-
12587	SS 75	Somalia	-	-	1(1)	-	-	12672	SS 152	Somalia	-	-	5(1)	-	-	-
12588	SS 77	Somalia	-	-	4(1)	-	-	12673	SS 153	Somalia	-	-	3(1)	-	-	-
12590	SS 78	Somalia	-	-	2(1)	-	-	12674	SS 154	Somalia	-	-	3(1)	-	-	-
12592	SS 80	Somalia	-	-	2(1)	-	-	12675	SS 155	Somalia	-	-	2(1)	-	-	-
12593	SS 81	Somalia	-	-	4(1)	-	-	12676	SS 156	Somalia	-	-	1(1)	-	-	-
12594	SS 82	Somalia	-	-	2(1)	-	-	12677	SS 157	Somalia	-	-	2(1)	-	-	-
12595	SS 83	Somalia	-	-	2(1)	-	-	12678	SS 158	Somalia	-	-	4(1)	-	-	-
12596	SS 84	Somalia	-	-	4(1)	-	-	12679	SS 159	Somalia	-	-	5(1)	-	-	-
12597	SS 84-1	Somalia	-	-	4(1)	-	-	12680	SS 160	Somalia	-	-	4(1)	-	-	-
12598	SS 85	Somalia	-	-	2(1)	-	-	12681	SS 161	Somalia	-	-	4(1)	-	-	-
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12600	SS 87	Somalia	-	-	4(1)	-	-	12683	SS 163	Somalia	-	-	5(1)	-	-	-
12601	SS 88	Somalia	-	-	5(1)	-	-	12684	SS 164	Somalia	-	-	2(1)	-	-	-
12602	SS 89	Somalia	-	-	5(1)	-	-	12685	SS 165	Somalia	-	-	3(1)	-	-	-
12603	SS 90	Somalia	-	-	4(1)	-	-	12686	SS 166	Somalia	-	-	5(1)	-	-	-
12604	SS 91	Somalia	-	-	3(1)	-	-	12687	SS 167	Somalia	-	-	5(1)	-	-	-
12605	SS 92	Somalia	-	-	2(1)	-	-	12688	SS 168	Somalia	-	-	3(1)	-	-	-
12606	SS 93	Somalia	-	-	3(1)	-	-	12689	SS 169	Somalia	-	-	5(1)	-	-	-
12607	SS 94	Somalia	-	-	5(1)	-	-	12690	SS 170	Somalia	-	-	2(1)	-	-	-
12608	SS 95	Somalia	-	-	4(1)	-	-	12691	SS 170 (LR)	Somalia	-	-	2(1)	-	-	-
12609	SS 97	Somalia	-	-	4(1)	-	-	12692	SS 171	Somalia	-	-	1(1)	-	-	-
12610	SS 98	Somalia	-	-	2(1)	-	-	12693	SS 172	Somalia	-	-	1(1)	-	-	-
12611	SS 99	Somalia	-	-	3(1)	-	-	12694	SS 174	Somalia	-	-	1(1)	-	-	-
12612	SS 100	Somalia	-	-	4(1)	-	-	12695	SS 175	Somalia	-	-	2(1)	-	-	-
12613	SS 101	Somalia	-	-	2(1)	-	-	12696	SS 176	Somalia	-	-	3(1)	-	-	-
12614	SS 102	Somalia	-	-	1(1)	-	-	12697	SS 177	Somalia	-	-	1(1)	-	-	-
12615	SS 103	Somalia	-	-	1(1)	-	-	12698	SS 178	Somalia	-	-	3(1)	-	-	-
12616	SS 104	Somalia	-	-	2(1)	-	-	12699	SS 179	Somalia	-	-	2(1)	-	-	-
12617	SS 105	Somalia	-	-	1(1)	-	-	12700	SS 180	Somalia	-	-	1(1)	-	-	-
12618	SS 106	Somalia	-	-	4(1)	-	-	12701	SS 181	Somalia	-	-	1(1)	-	-	-
12619	SS 107	Somalia	-	-	1(1)	-	-	12702	SS 182	Somalia	-	-	1(1)	-	-	-

IR No.	Alternative accession identifier	Source country	Source country				IR No.	Alternative accession identifier	Source country	Source country				
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32703	SS 183	Somalia	-	-	(11)	-	37527	R 170-E	Ethiopia	-	-	(15)	(18)	(51)
32704	SS 185	Somalia	-	-	(11)	-	37528	R 170-E	Ethiopia	-	-	-	-	(41)
32706	SS 187	Somalia	-	-	(11)	-	37530	MS A-2869C/14	Ethiopia	-	-	-	-	(51) (51)
32707	SS 188	Somalia	-	-	(11)	-	37560	MS-8-15 Key murga	Ethiopia	-	-	-	-	(31) (42)
32708	SS 189	Somalia	-	-	(11)	-	37575	FT 145 RR	Ethiopia	-	-	-	-	(31)
32709	SS 190	Somalia	-	-	(21)	-	37588	FT 155	Ethiopia	-	-	-	-	(31)
32710	SS 191	Somalia	-	-	(11)	-	37625	Melan	Ethiopia	-	-	-	-	(31) (41)
32711	SS 192	Somalia	-	-	(11)	-	37627	Melan	Ethiopia	-	-	-	-	(31) (41)
32712	SS 193	Somalia	-	-	(21)	-	37627	EL 174	Ethiopia	-	-	-	-	(41) (51)
32713	SS 194	Somalia	-	-	(31)	-	37629	N. camaldulensis	Ethiopia	-	-	-	-	(51) (51)
32714	SS 195	Somalia	-	-	(41)	-	37635	FT 185	Ethiopia	-	-	-	-	(41) (42)
32715	SS 196	Somalia	-	-	(41)	-	37639	Zenga	Ethiopia	-	-	-	-	(41)
32716	SS 197	Somalia	-	-	(21)	-	37641	Zenga	Ethiopia	-	-	-	-	(41)
32717	SS 198	Somalia	-	-	(21)	-	37783	E 404	Ethiopia	-	-	-	-	(41)
32718	SS 199	Somalia	-	-	(31)	-	37786	P 187	Ethiopia	-	-	-	-	(41)
32719	SS 200	Somalia	-	-	(31)	-	37787	Wood 170-A	Ethiopia	-	-	-	-	(41) (41)
32720	SS 201	Somalia	-	-	(31)	-	37908	EL 126a	Ethiopia	-	-	-	-	(51)
32721	SS 202	Somalia	-	-	(21)	-	37909	EL 1267	Ethiopia	-	-	-	-	(51) (41)
32722	SS 203	Somalia	-	-	(31)	-	38077	FT 1770-3	Ethiopia	-	-	-	-	(51)
32723	SS 204	Somalia	-	-	(31)	-	38095	Timali Zengado	Ethiopia	-	-	-	-	(41)
32724	SS 205	Somalia	-	-	(51)	-	38111	Maitiga	Ethiopia	-	-	-	-	(45) (42)
32725	SS 206	Somalia	-	-	(21)	-	38136	Dologon	Ethiopia	-	-	-	-	(41)
32726	SS 207	Somalia	-	-	(31)	-	38139	Dologon	Ethiopia	-	-	-	-	(42) (41)
32727	SS 208	Somalia	-	-	(31)	-	38110	Zengado	Ethiopia	-	-	-	-	(41)
32728	SS 209	Somalia	-	-	(31)	-	38114	San Amodele	Ethiopia	-	-	-	-	(41)
32729	SS 210	Somalia	-	-	(31)	-	38150	FT 1971-1	Ethiopia	-	-	-	-	(41) (51)
32730	SS 211	Somalia	-	-	(21)	-	38156	E 11083	Ethiopia	-	-	-	-	(41) (42)
32731	SS 212	Somalia	-	-	(11)	-	38158	FT 1409-1	Ethiopia	-	-	-	-	(41) (42)
32732	SS 213	Somalia	-	-	(31)	-	38160	Sadra	Ethiopia	-	-	-	-	(41) (42)
32733	SS 214	Somalia	-	-	(31)	-	38162	FT 1995	Ethiopia	-	-	-	-	(41)
32734	SS 215	Somalia	-	-	(41)	-	38163	Wadi Yehadi	Ethiopia	-	-	-	-	(41)
32735	SS 216	Somalia	-	-	(51)	-	38165	Wadi Yehadi	Ethiopia	-	-	-	-	(51) (51)
32736	SS 217	Somalia	-	-	(41)	-	38200	FT 2116	Ethiopia	-	-	-	-	(51)
32737	SS 218	Somalia	-	-	(31)	-	38201	FT 2116-1	Ethiopia	-	-	-	-	(51) (41)
32738	SS 219	Somalia	-	-	(11)	-	38224	FT 2109-1	Ethiopia	-	-	-	-	(41) (42)
32739	SS 220	Somalia	-	-	(21)	-	38217	FT 2201	Ethiopia	-	-	-	-	(41) (42)
32740	SS 221	Somalia	-	-	(41)	-	38240	FT 2206	Ethiopia	-	-	-	-	(41) (42)
32741	SS 222	Somalia	-	-	(41)	-	38242	FT 2283	Ethiopia	-	-	-	-	(41) (41)
32742	SS 223	Somalia	-	-	(41)	-	38243	Jigoma	Ethiopia	-	-	-	-	(41) (51)
32743	SS 224	Somalia	-	-	(41)	-	38250	BC 31	Ethiopia	-	-	-	-	(41)
32744	SS 225	Somalia	-	-	(31)	-	38254	Shan Nesh Amusi	Ethiopia	-	-	-	-	(41) (41)
32745	SS 226	Somalia	-	-	(11)	-	38256	Jiyale	Ethiopia	-	-	-	-	(41) (42)
32746	SS 227	Somalia	-	-	(31)	-	38259	Baq 39	Ethiopia	-	-	-	-	(41)
32747	SS 228	Somalia	-	-	(41)	-	38260	Baq 19-3	Ethiopia	-	-	-	-	(41)
32748	SS 229	Somalia	-	-	(31)	-	38266	BC 24	Ethiopia	-	-	-	-	(41)
32749	SS 230	Somalia	-	-	(31)	-	38270	BC 27	Ethiopia	-	-	-	-	(41)
32750	SS 231	Somalia	-	-	(41)	-	38281	BC 17	Ethiopia	-	-	-	-	(41)
32751	SS 232	Somalia	-	-	(31)	-	38288	BC 44	Ethiopia	-	-	-	-	(41)
32752	SS 233	Somalia	-	-	(41)	-	38289	BC 45	Ethiopia	-	-	-	-	(41)
32753	SS 234	Somalia	-	-	(21)	-	38293	BC 52	Ethiopia	-	-	-	-	(41)
32754	SSM 17	Somalia	-	-	(21)	-	38302	BC 59	Ethiopia	-	-	-	-	(41)
32756	SSM 39	Somalia	-	-	(41)	-	38311	BC 61	Ethiopia	-	-	-	-	(41)
32665	SPV 475	IRISAT	-	-	(41)	(41)	38304	BC 61-1	Ethiopia	-	-	-	-	(41)
32667	SPV 473/474	Dinka	-	-	(11)	-	38316	BC 64	Ethiopia	-	-	-	-	(41)
32668	IR SV 112	IRISAT	-	-	(51)	(41)	38328	Madomir (Bambes)	Ethiopia	-	-	-	-	(41)
32669	IR SV 118	IRISAT	-	-	(31)	-	38318	Mad. Akim	Ethiopia	-	-	-	-	(41) (51)
32670	IR SV 189	IRISAT	-	-	(51)	(11)	38348	BC 130	Ethiopia	-	-	-	-	(41) (51)
32671	IR SV 190	IRISAT	-	-	(41)	-	38349	BC 132	Ethiopia	-	-	-	-	(41) (51)
32672	IR SV 214	IRISAT	-	-	(41)	-	38349	BC 178	Ethiopia	-	-	-	-	(41)
32673	IR SV 247	IRISAT	-	-	(41)	-	38349	BC 179	Ethiopia	-	-	-	-	(41) (41)
32674	IR SV 271	IRISAT	-	-	(41)	-	38355	FT 2421	Ethiopia	-	-	-	-	(41)
32675	IR SV 298	IRISAT	-	-	(51)	-	38363	FT 2776	Ethiopia	-	-	-	-	(41)
32676	IR SV 335	IRISAT	-	-	(31)	-	38328	Madomir (Bambes)	Ethiopia	-	-	-	-	(41)
32677	IR SV 407	IRISAT	-	-	(51)	-	38348	Mad. Akim	Ethiopia	-	-	-	-	(41)
32678	IR SV 100	IRISAT	-	-	(31)	-	38348	IR 126047	Ethiopia	-	-	-	-	(41)
32679	IR SV 705	IRISAT	-	-	(41)	-	40462	C 5	Philippines	-	-	-	-	(51)
32682	IR SV 707	IRISAT	-	-	(51)	-	41441	J 302 1011	China	-	-	(51)	-	-
32680	FT 14.4	Philippine	-	-	(41)	(41)	41245	Sac-B	India	-	-	-	-	(51)
32684	FT 15.1	Ethiopia	-	-	(41)	(41)	41721	MSN 103	R. IRISAT	-	-	(41)	(41)	(41)
32685	FT 15.2	Ethiopia	-	-	(41)	(41)	41722	MSV 092	IRISAT	-	-	-	-	(41)
32687	FT 17.1	Ethiopia	-	-	(41)	-	41746	A 4009	Pakistan	-	-	-	-	(41)
32697	FT 24	Ethiopia	-	-	(41)	-	-	-	-	-	-	-	-	-
32698	FT 31	Ethiopia	-	-	(41)	-	-	-	-	-	-	-	-	-
32699	Chardelia	Ethiopia	-	-	(41)	(41)	-	-	-	-	-	-	-	-
32704	P-173-E	Ethiopia	-	-	(41)	(51)	-	-	-	-	-	-	-	-
32717	FT 37	Ethiopia	-	-	(51)	-	-	-	-	-	-	-	-	-
32716	Phaxosae	Ethiopia	-	-	(41)	-	-	-	-	-	-	-	-	-
32717	Nazareth	Ethiopia	-	-	(31)	-	-	-	-	-	-	-	-	-
32741	FT 56	Ethiopia	-	-	(41)	(2)	-	-	-	-	-	-	-	-
32745	FT 61.3	Ethiopia	-	-	(41)	(41)	-	-	-	-	-	-	-	-
32749	FT 68	Ethiopia	-	-	(51)	-	-	-	-	-	-	-	-	-
32751	FT 90	Ethiopia	-	-	(51)	(51)	-	-	-	-	-	-	-	-

About ICRISAT

The semi-arid tropics (SAT) encompass parts of 48 developing countries including most of India, parts of southeast Asia, a swathe across sub-Saharan Africa, much of southern and eastern Africa, and parts of Latin America. Many of these countries are among the poorest in the world. Approximately one-sixth of the world's population lives in the SAT, which is typified by unpredictable weather, limited and erratic rainfall, and nutrient-poor soils.

ICRISAT's mandate crops are sorghum, pearl millet, chickpea, pigeonpea, and groundnut; these five crops are vital to life for the ever-increasing populations of the SAT. ICRISAT's mission is to conduct research that can lead to enhanced sustainable production of these crops and to improved management of the limited natural resources of the SAT. ICRISAT communicates information on technologies as they are developed through workshops, networks, training, library services, and publishing.

ICRISAT was established in 1972. It is supported by the Consultative Group on International Agricultural Research (CGIAR), an informal association of approximately 50 public and private sector donors; it is co-sponsored by the Food and Agriculture Organization of the United Nations (FAO), the United Nations Development Programme (UNDP), the United Nations Environment Programme (UNEP), and the World Bank. ICRISAT is one of 16 nonprofit, CGIAR-supported Future Harvest Centers.



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