

Angon-tsary Toro-hay Momba ny

**BOZAKA AMAN'AHITRA**  
Eto Madagasikara

Photographic Field Guide to the

**GRASSES**  
of Madagascar







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## **GRASSES**

of **Madagascar**

**Nangonina sy novain'i/Compiled and edited by**

Nantenaina H. Rakotomalala<sup>1</sup>, Fenitra H. Randrianarimanana<sup>1,7</sup>,  
Rafael Felipe de Almeida<sup>2,3</sup>, Miantsa Andrianantenaina<sup>1</sup>, Lorna MacKinnon<sup>3</sup>,  
David Rabehevitra<sup>1</sup>, François Rousseu<sup>4</sup>, Lucien Rakotonirina<sup>1</sup>, Dina  
Miarinjanahary<sup>5</sup>, Nirintsoa Landry Raharinirina<sup>1</sup>, Mamy Tiana Rajaonah<sup>1</sup>,  
Tiana Randriamboavonjy<sup>1</sup>, Livaso Randriamanalina<sup>1</sup>, Cédrique  
Solofondranohatra<sup>6</sup>, Mijoro Rakotoarinivo<sup>7</sup>, Olinirina Nanjarisoa<sup>1</sup>, Jean  
Augustin Randriamampianina<sup>8</sup>, Botovao Auguste Ramiandrisoa<sup>9</sup>,  
and Maria S. Vorontsova<sup>3</sup>

<sup>1</sup> Kew Madagascar, Antananarivo, Madagascar

<sup>2</sup> University of the Witwatersrand, Johannesburg, South Africa.

<sup>3</sup> Royal Botanic Gardens, Kew, United Kingdom

<sup>4</sup> University of Sherbrooke, Canada

<sup>5</sup> Missouri Botanical Garden, Madagascar

<sup>6</sup> Madagascar Biodiversity Centre, Madagascar

<sup>7</sup> University of Antananarivo, Madagascar

<sup>8</sup> Foibem-Pirenena Momba ny Fikarohana Ampiharina amin'ny Fampandrosoana ny Ambanivohitra, Madagascar

<sup>9</sup> University of Mahajanga, Madagascar



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# FIZARAN-TAKELAKA

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## FISAORANA

Izahay dia manolotra ny fankasitrahana feno ho an'ireo rehetra izay nanohana sy niara-nisalaha tamin'ny RBG Kew tamin'ny famolavolana izao boky izao, indrindra: ny Ministeran'ny Tontolo Iainana sy Fandrosoana Lovainjafy sy ny Foiben-draharaha misahana ny fitantanana ny tontolo iainana (DGGE), ny Minisiteran'ny Fambolena sy Fiompiana eto Madagasikara tamin'ny alalàn'ny foiben-draharaha misahana ny fanohanana ny famokarana biby fiompy (DAPA) ny foiben-draharaha misahana ny fiarovana ny zavamaniry (DPV), sy ny foiben-draharaha misahana ny fambolena sy ny fiompiana (DGAE), ny Foibem-Pirenena Momba ny Fikarohana Ampiharina amin'ny Fampandrosoana ny Ambanivohitra (FOFIFA), ny fivondronan'ny mpisehatra eo amin'ny lalam-pihariana ronono eto Madagasikara (MDB PROFI-Lait), ny Missouri Botanical Garden (MBG), ary ny Oniversite an'Antananarivo sy ny sampam-pikarohana momba ny haiaina sy ny ekolojia ny zavamaniry (MBEV). Isaorana manokana Rakotoarisoa Julien Noel, Razafimpamoa Lucile, Rasoarinorolalao Hariliva Tsimialisoa, Randriamampianina Onidera Hajarivelo, Andriamainty Fils Jean Marrius, Fanomezanjanahary Miaratiana Vanessa, Ramahefamanana Mbolasoana Narindra, Rabakomanantsoa Landry Richard, Radanielina Tendro, Rakotoarimanana Vonjison, Randrianarivelo Seheny, Tompokolahy Razafinarivo Tsirinirina, Rakotoson Tatiana, Rafaly Tsilavina, Rapatsalahy Sabine, Fenohanitra Onjharifetra, ary Rakotomalala Willy tamin'ny fifanakalozan-kevitra sy ny fizarana angon-drakitra manan-danja avy amin'ny sehatra misy ny tsirairay. Isaorana ihany koa ny mpiara-miasa ao amin'ny RBG Kew Madagasikara sy Angletera tamin'ireo fanohanana ara-kevitra sy fanohanana maro samihafa. Isaorana manokana ihany koa ireo rehetra naka ny sary izay voatonona ao amin'ny pejy 39. Izao tetikasa izao dia notohanana ny GCRF Royal Society International Collaboration, ny tetikasa Darwin Initiative, ary ny Global Centre on Biodiversity for Climate.





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## FEHINKEVI-PANADIHADIANA

Ity *Angon-tsary toro-hay momba ny Bozaka Aman'ahitra eto Madagasikara* ity dia novokarin'ny RBG Kew niaraka tamin'ireo mpikaroka sy mpiara-miasa avy amina sampan-draharaha Malagasy maro. Ity boky ity dia natao ho fitaovana enti-mamantatra sy manavaka ireo karazam-bozaka hita eto Madagasikara, entina hanampiana ireo izay liana na miasa amin'ireo zava-maniry ireo, na mpikaroka izany, na mpisehatra, na mpamboly sy mpiompy, na olon-tsotra. Nosoratana amin'ny teny Malagasy sy teny Anglisy ny boky ary mirakitra karazam-bozaka 269 isa. Aseho isaky ny pejy ny sary sy fanazavana tsotra momba ny karazany tsirairay – fanazavana ampy hanavahana azy amin'ny karazany hafa. Na dia maro amin'ny karazam-bozaka aza no voasokajy ho ahi-dratsy, dia misy koa ireo karazany hafa manana ny maha-izy azy sy tena ilaina. Anisan'izany ny vary, ny katsaka, ary ny fary izay isan'ny sakafo tena manan-danja manerantany, indrindra ho an'ny Malagasy.





## EXECUTIVE SUMMARY

The *Photographic Field Guide to the Grasses of Madagascar* is the result of a research program conducted in collaboration between the Royal Botanic Gardens, Kew, and Malagasy institutions and researchers. This book is a tool designed to assist the recognition of the grasses found in Madagascar to support those who are interested in this incredible group, either researchers or stakeholders, farmers, or the general public. This book is written in Malagasy and English and includes 269 grass species. Each page represents one species along with simplified information about the species, as well as photographs highlighting their distinct features. Although many grass species are considered weeds, the grass family also includes species with a wide range of valuable uses. They include some of the most globally important food crops such as rice, maize and sugar cane which are essential to the Malagasy diet.





## TENY MIALOHA

I Madagasikara dia fanta-daza noho ireo zavamananaina tsy manam-paharoa ao aminy izay nivoatra irery teto amin'ny nosy hatramin'ny nampitoka-monina azy 88 tapitrisa taona izay. Rehefa miresaka ny momban'i Madagasikara sy ny zavamananaina ao aminy dia Baobaba, sahona, varika, honko, ary orkide foana no tonga ao an-tsaina voalohany. Ny bozaka aman'ahitra kosa dia lohahevitra tsy dia malaza loatra na dia mandrakotra ny 65% velaran'ny nosy aza, ary matetika tsy tafiditra anaty foto-kevitra ianarana sy kajiana izy ireo. Soa fa nanao fikarohana manokana momba ny bozaka Malagasy sy ny tontolony ny Royal Botanic Gardens, Kew (RBGK) efa am-polo-taona maro izao, mba hamantaranana fiaviany, ny fahasamihafany ary ny fiparitahany. Izany no nahafantarana ireo karazam-bozaka miisa 545 sy sokajy miisa 172 eto Madagasikara hatreto. Tamin'ny alalàn'ny famatsiam-bola Darwin Initiative, izay vao tsy ela, no nanehoan'ny DEFRA sy ny masoivoho Britanika ny fanohanany ny asa fikarohana ataon'ny RBGK mikasika ny bozaka sy ny fitantanana ny kijàna, sy ny fanohanany ny ezaka ataon'izy ireo amin'ny fanindraindrana ny hasarobidin'ny ahitra teratany Malagasy, sy amin'ny fampidirana azy ireo anaty drafim-piarovana. Izany dia ampahany ihany amin'ny fanoloran-tenan'ny RBGK sy ny fanjakana Britanika manontolo amin'ny fiarovana ny zavaboary eto Madagasikara. Efa hatramin'ny taona 1980 ny RBGK no nifantoka tamin'ny asa fikarohana sy fiarovana ny zavamaniry eto Madagasikara, ary nanofana manam-pahaizana Malagasy maro hiasa amin'ireo sehatra ireo. Amin'izao fotoana izao ny masoivoho britanika dia manohana fandaharan'asa sy tetikasa maherin'ny 20 isa, izay misy tarihin'ny RBGK ary iaraha-miasa akaiky amin'ny governemantan'i Madagasikara, mba hiarovana ireo vakoka voajanahary sarobidy sy marefo eto Madagasikara. Tamin'ny taona 2018 no namoaka ny toro-hay andiany voalohany momba ny sokajim-bozaka aman'ahitra sy ny volotsangana eto Madagasikara ny RBGK. Ity andiany manaraka ity indray dia boky toro-hay feno sary sy lava kokoa satria miompana amin'ireo karazany izay maro anisa kokoa. Izy io dia mirakitra sary nalaina teny an-tsaha nanomboka tamin'ny taona 2011 ka hatramin'ny 2023, izay nohamarinina sy nokarakaraina ara-dizitaly, mba hampisehoana ny toetra sy ny bikan'ireo karazam-bozaka sy hanazavana ny fampiasana azy ireo amin'ny kolontsaina sy ny fomba nentim-paharazana. Ity toro-hay ho an'ny famantarana, ny fitantanana ary ny fampiasana ny ahitra eto Madagasikara ity dia ahitana sokajin'ahitra 125 isa sy karazany 269 isa. Izy io dia manaporofa ny fiaraha-miasa mahomby eo amin'ny Royal Botanic Gardens, Kew (RBGK) sy ireo mpiara-miombon'antoka eto an-toerana. Mampiseho ihany koa ny vokatra avy amin'ireo tetikasa roa notohan'ny fanjakana britanika ity boky ity, tetikasa momba ny fitantanana ny ahitra fihinan'ny biby, momba ny fanasokajiana ireo karazam-bozaka araka ny haizavamaniry, ary momba ny faharetan'ny famokarana ara-tsakafo amin'ny sehatra madinika.

**David Ashley**

Masoivoho Britanika eto Madagasikara





## FOREWORD

Madagascar is rightly renowned for its unique biodiversity – the result of its 88 million years of independent evolution. Baobabs, amphibians, lemurs, mangroves, and orchids come to mind whenever one thinks of the island's flora and fauna. Grasses are a less famous topic even though they cover 65% of the island and have often been neglected as a subject of study and conservation. Fortunately, the Royal Botanic Gardens, Kew has carried out research on Malagasy grasslands to understand their origins, diversity, and current distribution. That has led, to date, to the identification of ca. 146 genera including 545 species. Through the recent Darwin Initiative grants, DEFRA and the British Embassy has been pleased to support RBGK's work on grasses and on grass forage management, as well as their advocacy to highlight the value of Madagascar's endemic grasses and the need to integrate grasslands into conservation planning. This is part of RBGK's and indeed the United Kingdom's long and growing commitment to Madagascar's biodiversity. Ever since the 1980s, RBGK has been supporting better understanding and protection of Madagascar's flora – and along the way has supported generations of Malagasy experts. The British Government is currently supporting over 20 programmes and projects, including some led by RBGK, to conserve Madagascar's precious but vulnerable natural heritage in close coordination with the Government of Madagascar. The *Identification Guide to Grasses and Bamboos in Madagascar* was published by the Royal Botanic Gardens, Kew in 2018. This second book is a longer photographic guidebook dedicated to grass species. It documents digitally processed photographs of grasses taken on field trips from 2011 to 2023 to highlight their morphological traits and illustrate their ethnobotanical specifications. The *Photographic Field Guide to the Grasses of Madagascar* covers 125 genera and 269 species of grasses. It testifies to RBGK's fruitful collaborations with national partners and includes the results of two UK Government-funded projects on grass forage management as well as grass classification and smallholder food production resilience.



**David Ashley**

British Ambassador to Madagascar





## SASIN-TENY

Ny siansa mahakasika ny bozaka aman'ahitra eto Madagasika dia niroborobo nanomboka tamin'ny taona 2011, teo ambany fitarihan'i Maria Vorontsova, mpikaroka avy ao amin'ny Royal Botanic Gardens Kew, Angletera. Nanangana ekipa mpikaroka Malagasy maro izy mba handalina ny bozaka, ary mizara ireo vokam-pikarohana amina gazetiboky siantifika, na amin'ny alalàna angon-tserasera sy boky, mba ahafahan'ny rehetra misitraka izany. Niatomboka tamin'ny fandinihana ireo karazam-bozaka samihafa misy eto Madagasikara ny fikarohana. Nojerena tao anatin'izany ny hoe inona avy ireo karazany maniry eto, aiza avy ny toerana ahitana azy, inona no mampiavaka ny isan-karazany, ahoana ny fomba hamantarana azy, ny fifandraisan'ireo ahitra ireo, ary ny fanasokajiana azy. Hatreto dia fantatra fa eo amin'ny 545 isa eo ny karazam-bozaka hita eto Madagasikara, ary eo amin'ny 40% eo ho eo amin'ireo dia teratany, izany hoe tsy maniry afa-tsy eto Madagasikara ihany. Taty aoriana dia nitohy tamin'ny fandalinana momban'ny ekolojia ny fikarohana. Nandroso hevitra ireo mpikaroka fa ny fatrana sy kijana dia efa nisy teto Madagasikara talohan'ny nahatongavan'ny olombelona teto amin'ny nosy, izany hoe voajanahary, fa ny afo sy ny fambolena nataon'ny olona no nahatonga azy niitatra ka nisolo toerana ireo ala sasany may. Taty aoriana dia nivelatra ho amina fikarohana azo ampiarina ny tetikasa mba hamantarana ireo karazan'ahitra sy vilona tsara indrindra amin'ny famokarana hena sy ronono betsaka kokoa. Ny vokam-pikarohana dia zaraina amin'ny tantsaha ho entiny manatsara ny seham-piompiany. Mitovy amin'izany ihany koa, ity tetikasa ity, dia mikendry ny hanome fahalalana manan-danja momba ny karazam-bozaka eto Madagasikaramba hanohanana ireo rehetra liana amin'ireny zavamaniry ireny amin'ny sehatra iasany.





## PREFACE

Research into the grasses of Madagascar has flourished since 2011, under the leadership of Dr Maria S. Vorontsova, a researcher from the Royal Botanic Gardens Kew, UK. She has built a team of Malagasy researchers to explore grasses and share their findings through scientific journal articles, online data and books, making the information available to everyone. The research began with the different types of grasses that exist in Madagascar; what types of grasses grow here, where they come from, what makes them different, how to identify them, how these grasses are related, and how to classify them. So far, it is known that there are about 545 species of grasses found in Madagascar, with approximately 40% of them restricted to the island. More recently, the research expanded into the study of ecology. The researchers suggested that grasslands existed in Madagascar before human arrival, which means they are natural, although anthropic fire and agriculture led to their spread, replacing some forest. Later, the project developed into practically applicable work to identify which types of grasses and forages are best for producing more meat and milk, and results were shared with farmers to enhance the farming sector. Similarly, this project aims to provide valuable information about the grasses in Madagascar to support those with an interest in these plants within their respective fields.





## TENY FAMPIDIRANA AVY AMIN'IREO MPIARA-MIASA ANATIN'NY TETIKASA

Ny foiben-draharaha misahana ny fanohanana ny famokarana sy ny fiahiana ny biby (DAPA) eo anivon'ny Minisiteran'ny Fambolena sy ny Fiompiana dia miandraikitra ny fampiharana ny paikadin'ny fampandrosoana eo amin'ny sehatry ny fiompiana, ary koa ny fampiroboroboana ny seham-pamokarana manomboka amin'ny fiompiana tantanam-pianankaviana ka hatramin'ireo efa mampiasa ny teknolojia avo lenta. Ny DAPA dia manohana ihany koa ny fiarovana ny biby fiompy, ny fitantanana, sy ny fitahirizana ary ny fanatsarana ny fototarazo, ary ny fampiharana ny fenitra sy ny fitsipika mifandraika amin'izany. Miandriakitra ny fampitomboana ny vokatra avy amin'ny fiompiana ity foiben-draharaha ity ary mijery manokana izay ho fitantanana ny fananahany sy ny fanatsarana ny sakafony. Misy telo ny sampan-draharaha ao anatin'ny dia ny sampan-draharaha misahana ny fampiroboroboana ny biby mandinika (SDFR), ny sampan-draharaha misahana ny fampiroboroboana ny fiompiana haingam-pihodina (SDFECC) ary ny sampan-draharaha misahana ny fanatsarana ny fototarazo sy ny fampivoarana ny karazam-biby (SAGDR). Ny tanjon'ny sampan-draharaha tsirairay dia ny hanohana ny fananana fahaleovan-tena ara-tsakafo amin'ny alalàn'ny fampiroboroboana ny fiompiana maharitra. Nitana anjara toerana lehibe teo amin'ny asanay ny bozaka anaty fianakavian'ny Poaceae, na izy atao sakafo ho an'ny biby fiompy na anaovana tafo sy lafika ho an'ny vala fiompiana. Fanampin'izany, mitondra soa ho an'ny tontolo iainana izy ireo, toy ny fihazonana ny kalitaon'ny tany ho an'ny fambolena sy ny fiarovana azy amin'ny kaoka. Ity boky ity dia natao ho fitaovana manan-danja enti-manasongadina ny maha-zava-dehibe ny bozaka isan-karazany ary mizara ny momba izay mety ho azo ampiasana azy sy ny soa entiny, izay mifanaraka indrindra amin'ny tanjonay. Mikasika ny tombontsoa ara-toekarena mety hoentiny, ity boky ity dia antenaina hanampy ny tantsaha hahafantatra misimisy kokoa ny amin'ireo karazam-bilona tsara sy azo ampisaina eto Madagasikara, hoentiny manatsara ny kalitao sy mampitombo ny tahan'ny vokatra azo avy amin'ny biby fiompy. Ho fanampin'izany, ny boky dia entina hanairana ny saina amin'ny maha zava-dehibe ny fiarovana ireo zavaboary samihafa eto Madagasikara, eny hatramin'ny bozaka. Manoloana ny asa fampandrosoana an'i Madagasikara sy ny fizàrana amin'ny toetr'andro, dia tsara ny manamafy ireo ezaka fikarohana atao momba ny fiarovana ny bozaka sy ny zavamananaina hafa. Ankoatr'izay dia tokony trandrahina izay azo ampiharana ny vokam-pikarohana amin'ny sehatra isan-karazany, toy ny sehatry ny fitsaboana. Eo amin'ny sehatry ny fambolena sy ny fiompiana dia ilaina ny famokarana bozaka sy zana-kazo, sy ny fanaparitahana ny karazany mifototra amin'ny hilàvana azy. Fanampin'izay, zava-dehibe ny manamafy ny fikarohana momba ireo ahitra be otrikaina manan-danja ara-tsakafo sy ireo izay mandray anjara amin'ny fanatsarana ny kalitaon'ny tany, tahaka ny maha-zava-dehibe ny ezaka atao amin'ny fampahafantarana ny olona ireo karazam-bozaka tsy manam-paharoa sy atahorana ho lany tamingana.





## INTRODUCTIONS FROM PROJECT PARTNERS

The Directorate of Support for Animal Production and Health (DAPA) within the Ministry of Agriculture and Livestock is responsible for implementing the national development strategy for the livestock sector. It promotes production systems that range from family-run farms to those using advanced technologies. DAPA also supports animal health protection, the management, conservation, and improvement of genetic resources and ensures the application of relevant standards and regulations. The directorate is committed to increasing livestock productivity, with a particular focus on reproductive management and the improvement of animal feed. It is composed of three departments: the Support Service for the Development of Ruminant Value Chains (SDFR), the Support Service for the Development of Short-Cycle Livestock Farming (SDFECC), and the Support Service for Genetic Improvement and Breed Development (SAGDR). The goal of each department is to contribute to achieving food independence through the promotion of sustainable livestock farming. Poaceae have always played a significant role in our operations, being utilized as food for grazing animals or for constructing roofs and mats for cattle on farms. Furthermore, we recognize the ecosystem services provided by grasses, such as maintaining soil quality for agriculture and protecting against erosion. This book will serve as a valuable tool for disseminating important knowledge, highlighting the importance, uses, and benefits of each species, aligning perfectly with our primary goal. Regarding the potential economic benefits, this book is expected to help farmers gain a better understanding of the valuable and useful forage grass species available in Madagascar, which can be used to improve the quality and increase the productivity of livestock farming. Additionally, the book will foster awareness about the critical importance of biodiversity conservation, including grasses. For Madagascar's development and climate adaptation, it is imperative to bolster research efforts for plant conservation including grasses. Additionally, research should focus on the practical application of grass knowledge in various fields, including medicine. In the fields of agriculture, the production of grasses and seedlings, as well as the distribution of various species based on their needs, are essential. Additionally, it is crucial to strengthen research on highly nutritious grasses that are important for food security and those that contribute to soil quality improvement. This effort is just as important as raising awareness among the public about unique grass species that are endangered and at risk of extinction.



### Dr Lucile Razafimpamo

Tale Jeneralin'ny Sampandraharaha mpanohana ny  
Fampandrosoana ny biby fiompy fohy fe-potoana hahavelomana  
(SDECC) - Sampandraharaha mpanohana Famokarana Biby Fiompy  
(DAPA), Ministeran'ny Fambolena sy Fiompiana eto Madagasikara  
Director of Support Service for the Development of Short Cycle  
Livestock (SDECC)- Directorate of Support for Animal Production  
(DAPA), Ministry of Agriculture and Livestock of Madagascar





Ny FOFIFA/CENRADERU dia Foibem-pirenena momba ny Fikarohana ampiharina amin'ny Fampandrosoana ny eny Ambanivohitra eto Madagasikara eo ambany fiahian'ny Minisiteran'ny Fampianarana Ambony sy Fikarohana Ara-tsiansa ary ny Minisiteran'ny Fambolena sy Fiompiana. Manao fikarohana amin'ireo sehatra fototra izy toy ny fambolena sy fiompiana, ny fitantanana ny harena voajanahary sy ny ala, ny fiompiana trondro, ny teknolojia apiasaina aorian'ny fijinjana, ary ny toekarena sy fiarahamonina eny ambanivohitra. Ny iraka ataonay dia ny manatanteraka ny lalàna nasionaly izay manohana ny fampandrosoana maharitra ny tontolo ambanivohitra sy ny fiantohana ara-tsakafo maharitra eto Madagasikara. Ny FOFIFA dia efa ela no nanao fikarohana mikasika ny fianakavian'ny Poaceae, indrindra amin'ny lafiny fitantanana ny kijana voajanahary sy ny fitantanana maharitra ny vilona. Izahay dia manao ezaka eo amin'ny fitantanana ny kijana eto an-toerana, fa mampiditra sy mamboly karazam-bilona vaovao avy any ivelany ihany koa ary manaparitaka izany amin'ireo toeram-piompiana eto Madagasikara. Maro kokoa ny fikarohana nataonay mifantoka amin'ny vary noho izy sakafo fototra eto amin'ny firenena, raha oharina amin'ireo fikarohana momba ny serealy hafa toy ny katsaka, sorgho, varim-bazaha, ary ny vilona hafa. Toy izany koa ny siansa mikasika ny ahi-dratsy, indrindra ireo anatin'ny Poaceae, dia vitsy ny mpikaroka ary efa lany andro ireo loharanom-baovao azo ifotorana, anefa io dia tena manan-danja eo amin'ny sehatry ny agrônomia eto Madagasikara. Izany no maha-zava-dehibe ity boky ity, satria hanome fahalalana vaovao hanohana ny fikarohana hafa, ary hanampy amin'ny fampandrosoana ara-toekarena maharitra eto Madagasikara. Ho an'ny tantsaha manokana dia hisitraka voka-tsoa avy amin'ity boky ity izy ireo, fa amin'ny alalàn'ny fizaram-pahalalana avy amin'ireo fikambanana sy sampan-draharaham-panjakana sy tsy miankina, toy ny mpisam-panjakana miasa any ambanivohitra, ny ONG, ary ireo mpitantana ny faritra arovana, izay miara-miasa akaiky amin'ny tantsaha sy ny fikambanany. Ny fandraisan'andraikitr'ireo fikambanana voatanisa ireo dia misy fiantraikany betsaka amin'ny tontolon'ny famokarana, izay antenaina fa hanampy amin'ny fanatsarana ny fitantanana ny loharanon-karena sy ny fanatsarana ny farim-piaina'ny tantsaha. Na izany aza anefa, mbola misy ny fikarohana lalindalina kokoa tokony atao mikasika ny fianakaviana Poaceae eto Madagasikara, indrindra amin'ireo karazany tena ampiasaina, ny andraikitr'ireo karazany zanatany ao amin'ny tontolo iainana, ny taham-pamokaran'ireo faritra be bozaka, ary ny fahalalana momba ireo karazany teratany.





FOFIFA/CENRADRU is Madagascar's national institution for applied research in rural development, under the joint supervision of the Ministry of Higher Education and Scientific Research and the Ministry of Agriculture and Livestock. FOFIFA leads research efforts across key areas such as agricultural and livestock production, forestry and natural resource management, aquaculture, post-harvest technologies, and rural socio-economics. Its mission is to implement national research policies that support sustainable rural development and food security in Madagascar. FOFIFA has long been committed to advancing research on the Poaceae family, focusing on natural pastures and sustainable forage resource management. Our efforts include managing grasslands and introducing productive grass species for fodder across Madagascar's diverse agroecological zones. While much of our research has centred on rice, the country's most important crop, we recognize that research on other cereals like maize, sorghum, wheat, and certain forage grasses remains underdeveloped. Also, for weed science, particularly concerning Poaceae, the number of researchers is limited, and reference materials are outdated, thus this is a vital field for Madagascar's agro-economic sector. These make the need for a comprehensive resource like this book even more critical, as it will provide up-to-date knowledge, support research, and contribute to sustainable development of the economy in Madagascar. This book will benefit farmers indirectly through knowledge sharing from private and public institutions, such as government services, rural development NGOs, and protected area managers, who work closely with farmers and their organizations. These institutions play a key role in influencing the production environment, and through their efforts, the book is expected to contribute positively to improving the management of plant resources and enhancing the economic well-being of farmers. However, there is a need for more advanced research on the Poaceae in Madagascar, focusing on the most used species, the ecological roles of native species, the productivity of major grass formations, and knowledge about endemic species.



**Dr Jean Augustin Randriamampianina**

Mpahay siansa momba ny ahidrasy, Foibem-  
Pirenena Momba ny Fikarohana Ampiharina amin ny  
Fampandrosoana ny Ambanivohitra (FOFIFA)  
Weed scientist, National Centre for Applied  
Research in Rural Development (FOFIFA)





Ny Madagascar Biodiversity Center (MBC) dia sampam-pikarohana mifantoka amin'ireo karazam-bibikely azo ompiana sy fihinana, miara-miasa amin'ny California Academy of Science eto Antananarivo Madagascar. Ahitana toeram-piofanana ho an'ny mpianatra malagasy izy io ary tontolo ivelaran'ny mpahay siansa malagasy hananany ho avy maharitra. Ny MBC dia mitrandraka ny mety azo ampiasana ireo bibikely ireo eto Madagasikara hiadiana amin'ny tsy fanjarian-tsakafo, ary tafiditra anatin'izany ny fikarohana mikasika ny zezika azo avy amin'ny bibikely sy ny fandalinana ny mety ho fiatraikany amin'ny zava-maniry. Amin'ny fikarohana atao amin'ireo bibikely ireo, dia ilainay ny mahafantatra ny toeram-ponenany sy ny zava-maniry fihinany mba hanamora ny fiompiana azy. Noho izany dia manan-danja amin'ny sehatra hiasanay ity boky ity satria misy amin'ireo bibikely hiasanay no monina amin'ny toerana feno bozaka. Sarotra fantarina ny bozaka ka tena ilaina ny boky toro-hay notsorina toy izao mba ho azon'ny daholobe. Ho an'ireo tantsaha manokana dia mety hanampy azy amin'ny fisafidianana ireo karazam-bozaka tsara ho an'ny biby fiompiny ny boky, na koa hanampy azy hahay ireo karazany mety hanembatsembana na hanimba ny voliny ka mila esorina. Na izany aza anefa dia mila amafisina ny fandalinana ny amin'ny fomba mety hitantanana ny afo sy ny fampiasana ny kijana, mba tsy hanembatsembana ny asa fiarovana ny tontolo iainana anefa mamela ny fisian'ireo fianakavian'ny bozaka Poaceae ireo hiroborobo noho izy mitondra soa ho an'ny tantsaha sy nohon'ny maha-zava-dehibe azy eo amin'ny tontolo iainana.





The Madagascar Biodiversity Center (MBC) is a research branch focused on edible and farmable insect species, working in collaboration with the California Academy of Sciences in Antananarivo, Madagascar. The MBC includes training facilities for Malagasy students and provides an environment where Malagasy scientists foster a sustainable future. MBC explores the potential use of these insects in Madagascar to combat malnutrition, including research on insect-based fertilizers and the study of their potential effects on plants. In conducting research on these insects, it is essential for us to understand their habitats and the plants they feed on, to facilitate their farming. Therefore, this book is highly valuable in our field of work, as some of the insect species we are working on inhabit grass-dominated areas. Grasses are difficult to identify, so a simplified guide like this is very useful for the general public. For farmers in particular, the book may help them select the best grass species for their livestock or identify those species that might be harmful or invasive to their crops and thus need to be removed. However, further study is needed on fire management and the use of fallow lands, to ensure that conservation efforts are not hindered, while still allowing Poaceae to thrive - given their importance to farmers and the environment.



**Dr Cedrique Solofondranohatra**

Mpikaroka, Madagascar Biodiversity Centre

Postdoctoral Resident, Madagascar Biodiversity Centre





Ny MBEV (Mention Biologie et Ecologie Vegetales) dia iray amin'ireo sampam-pahalalana miisa roambinifolo ao amin'ny fakioltan'ny Siansa eny amin'ny Oniversite an'Antananarivo. Ny sampana misy anay dia manolotra fiofanana manokana amin'ny taranja mikasika ny haiaina sy ny hai-zavamaniry ho an'ireo mpianatra eto Madagasikara. Izahay dia mampita amin'ny mpianatra ireo fahalalana fototra mikasika ny zavamaniry samihafa izay ilaina amin'ny fahafantarana sy ny fitantanana azy ireo. Ity boky toro-hay momba ny bozaka ity dia fitaovana hanampy anay hampianatra sy hampahafantatra ny mpianatra ny amin'ny fahasamihafana misy ao anatin'ny fianakavian'ny bozaka, izay heverina ho zavamaniry madinika sy sarotra hay anefa dia maro karazana tokoa. Loharanom-pahalalana manan-danja ho fianteheran'ny rehetra ihany koa ity boky ity satria mizara fahalalana hafa momba ny bozaka amin'ny ankapobeny toy izay azo ampiasana azy. Ny boky toy ity dia mandrisika ny fanaovana fikarohana azo ampiharina hanatsarana farim-piainana indrindra hoan'ny tantsaha - siansa manolotra torohevitra azo ampiharina amin'ny fitantanana ny fambolena, manolotra paikady mahomby sy fanavaozana ara-teknolojia, ary fanao maharitra izay mikendry ny hampitombo vokatry, hampihena ny vola lany, ary manampy amin'ny fiatrehana ny olana ara-toekarena, ka hahasoa ny mpamboly manontolo. Tokony atao laharam-pahamehana ny fandalinana ny fahaiza-manaon'ny bozaka miatrika ny fiovaovan'ny toetrandro, ny fanombanana ny fahombiazana azo avy aminy amin'ny maha-vilona azy, ary ny fomba hisafidianana ireo karazam-boly mifanaraka amin'ny toe-tany. Ilaina ihany koa ny fikarohana manokana momba ny fiantraikan'ireo ahi-dratsy amin'ny voly sy ny toeram-pambolena. Ny fanitarana ny fahalalana amin'ireo sehatra ireo dia zava-dehibe satria manohanana ny rafim-pambolena sy manamafy ny fahafahan'i Madagasikara miatrika ny fiovaovan'ny toetr'andro.





The MBEV (Department of Plant Biology and Ecology) is one of the twelve Mentions of the Faculty of Sciences at the University of Antananarivo, Madagascar. Our department provides specialized training in plant biology and taxonomy to students in Madagascar. We aim to equip them with essential knowledge for understanding and managing plant diversity. This field guidebook will serve as an educational tool, helping us to teach and introduce students to the diversity in the grass family, which is assumed to comprise difficult tiny plants while having a high number of species. It will also be an essential reference on the grass species of Madagascar by providing general information on grass species such as their potential uses. Such a book inspires more practical science to support the farmer economy —science that offers practical advice on farm management, effective strategies, technological innovations, and sustainable practices aimed at enhancing productivity, reducing costs, and building resilience against economic challenges, ultimately benefiting the entire farming community. Priority research should focus on understanding the resilience of these species to climate change, evaluating their effectiveness as forage producers, and determining which crop varieties are most adapted to the local environment. Targeted research is also needed to better understand how invasive species interact with crops and affect agricultural systems. Advancing knowledge in these areas is essential for promoting sustainable farming systems and strengthening Madagascar's ability to adapt to climate change.



**Dr Mijoro Rakotoarinivo**

Mpandahateny-mpampianatra mpikaroka,  
MBEV, Oniversite an'Antananarivo

Lecturer, MBEV, University of Antananarivo





Ny ankamaroan'ny tantsaha malagasy dia mamboly sy miompy ary mampiasa biby toy ny omby (*Bos indicus*) ampiasaina amin'ny fitanterana, atao tahiry ara-bola hoan'ny eny ambanivohitra, ary mpamokatra zezika. Maro amin'ireo tantsaha eto Madagasikara no manao ny rafi-piompiana an-kalamanjana, ka ireo karazan'ahitra mameno ny kijana no foto-tsakafon'ireo biby fiompiny. Anefa, na dia mandrakotra ny 65% ny velaran-tanin'i Madagasikara (65%) aza ny hivoka sy ny tanety, ary na dia ivon'ny fiveloman'ny tantsaha aza ny fiompiana, dia matetika tsy ampy sakafo ny biby fiompy, indrindra amin'ny vanim-potoanan'ny maintany ka miha-antitra sy maina ny ahitra. Izany tsy fanjarian-tsakafo izany anefa dia misy fiantraikany amin'ny taham-pamokarana ronono sy hena ary ny taham-piterahan'ny biby. Ny antony lehibe mahatonga izany dia ny tsy fahampian'ny fahalalana sy ny tsy fahatakarana ny lanjan'ny kijana voajanahary, izay matetika heverina ho karazana tontolo efa simba izay nandimby ny ala nisy teo aloha izay efa potika. Izany no anton'ny tetikasa Harena Voajanahary sy Kijana Mamokatra novolavolaina, izay vatsian'ny Darwin Initiative vola, tetikasa mifantoka amin'ny filàn'ireo tantsaha malagasy ao Ibity, Itremo, ary Ankafobe. Tanjon'ny tetikasa ny hanatsara ny famokarana biby fiompy amin'ny alalan'ny fampiasana ireo karazan'ahitra zanatany sy teratany hita ao amin'ireo hivoka ao afovoatanin'i Madagasikara, sady manindrahindra ihany koa ny maha-zava-dehibe ireo karazana rohivoary ireo eo anivon'ny tontolo iainana. Ny fikarohana momba ny Poaceae sy ny tontolony teto Madagasikara dia manana ny tantarany, izay niatomboka tamin'ny asa fototra navoakan'i Bosser tamin'ny 1969. Notohizan'i Maria Vorontsova sy ireo mpiara-miasa taminy izany tamin'ny taona 2011, ary niteraka lahatsoratra ara-tsiansa maro, anisan'izany ny Identification Guide to Grasses and Bamboos in Madagascar (Vorontsova et al., 2018). Ao anatin'ny tetikasa Harena Voajanahary sy Kijana Mamokatra, ny fikarohana dia tarihin'i Olinirina Nanjarisoa Prisca, manam-pahaizana malagasy voalohany momba ny fanasokajiana ny fianakavian'ny Poaceae. Io fikarohana io dia mifantoka amin'ny fanisana ireo karazam-bozaka hita eny amin'ny hivoka mba hanombanana ny tahan'ny fahasamihafan'ireo karazany ireo, mba hamantarana koa ireo karazany azo atao vilona, ary mba hamantarana ny habetsaky ny tahan'ny vokatra zavamaniry sy ny salam-pahafahan'ny hivoka ao afovoatany mamatsy sakafo ny biby fiompy. Ny vokatry ny fikarohana nataonay dia nitondra fandraisana anjara mivantana tamin'ny fisafidianana ireo karazana ahitra aseho ao anatin'ity boky ity, izay manasongadina ireo karazana ahitra tena fototra fihinan'ny omby. Ity boky ity koa dia fitaovana azo ampiasaina amin'ny an-davanandro, hanampy ny tantsaha sy ny mpikaroka hahafantatra sy hamantatra amin'ny fomba mora kokoa ireo karazana ahitra hita eny amin'ny kijana sy ny hivoka eto Madagasikara. Araka ny voka-panadihadiana nataonay dia ireto avy no karazam-bozaka tena fahita any amin'ny hivoka: *Loudetia simplex* (zanatany, fihinan'ny biby), *Panicum luridum* (teratany, fihinan'ny biby), *Elionurus tristis* (teratany, tsy fihinan'ny biby), *Aristida rufescens* (teratany, fihinan'ny biby), *Aristida tenuissima* (teratany, tsy fihinan'ny biby), *Schizachyrium sanguineum* (zanatany, fihinan'ny biby), *Hyparrhenia rufa* (zanatany, fihinan'ny biby), *Heteropogon contortus* (zanatany, fihinan'ny biby), *Ctenium concinnum* (zanatany, tsy fihinan'ny biby), *Sporobolus centrifugus* (zanatany, tsy fihinan'ny biby), *Sporobolus pyramidalis* (zanatany, fihinan'ny biby).



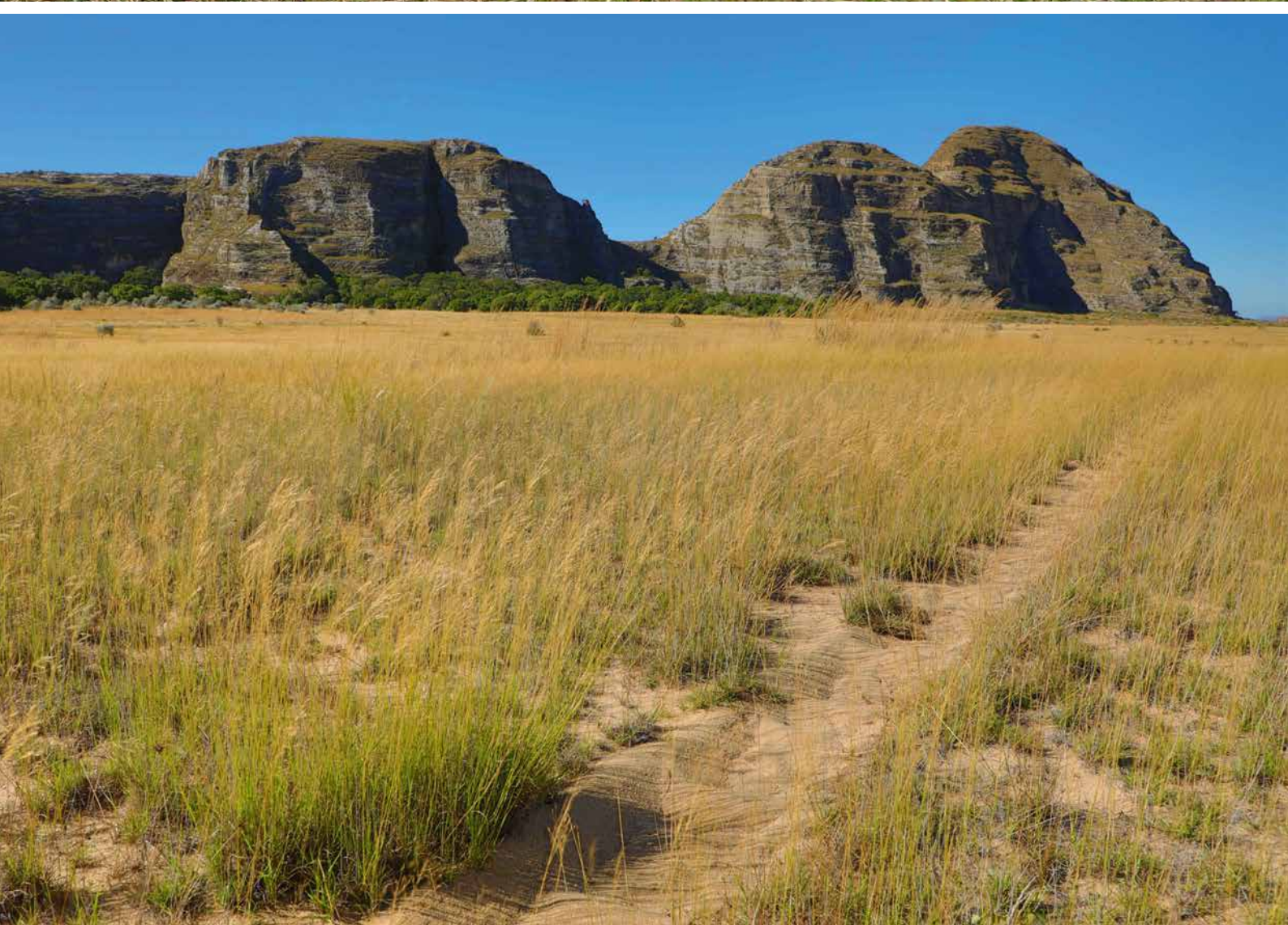
Most Malagasy smallholders are farmers with zebu cattle (*Bos indicus*) as working animals, sources of fertilizer, transport, and rural banks. In Madagascar, most farmers practice farming where grasslands dominated by grasses are the main source of forage for their cattle. Despite the large area occupied by the grassy biomes in Madagascar, covering 65% of the country's land area, and despite the centrality of livestock to the livelihoods of Malagasy smallholders, livestock tend to be undernourished, especially during the dry season, when the main forage available is senesced grass. This undernutrition negatively impacts milk and meat production, as well as calving rates. A significant driver of undernutrition is a knowledge gap and misunderstanding of the pastoral value of natural grasslands, which are frequently assumed to be degraded ecosystems resulting from the destruction of historic primary forests. The *Harena Voajanahary sy Kijana Mamokatra* project, funded by the Darwin Initiative, was designed based on the needs of Malagasy farmers in Ibity, Itremo, and Ankafobe. The project's goal is to improve livestock production by promoting the use of native and endemic forage species found in the savannas in the Central Highlands of Madagascar, while also highlighting the ecological importance of these natural ecosystems. Research on grasses and grasslands in Madagascar has a long history, dating back to the first reference work published by Bosser in 1969. This foundational work was revived by Maria Vorontsova and colleagues in 2012, resulting in multiple scientific publications, including the *Identification Guide to Grasses and Bamboos in Madagascar* (Vorontsova et al., 2018). Within the *Harena Voajanahary sy Kijana Mamokatra* project, research on grasses and grasslands is carried out by Olinirina Prisca Nanjarisoa, the first Malagasy botanist specialized in Poaceae taxonomy. The research focuses on the floristic inventory of savannas to assess species diversity, to identify forage grass species grazed by livestock, and to document the biomass productivity and average grazing capacity of Central Highland savannas. The results of this research have directly contributed to the selection of key species described in this current book, which highlights the main forage grasses grazed by cattle. It also serves as a practical tool to help farmers and researchers more easily recognize and identify forage species encountered in Madagascar's pastures and savannas. From our results, the most frequent species in savanna are *Loudetia simplex* (native, grazed), *Panicum luridum* (endemic, grazed), *Elionurus tristis* (endemic, not grazed), *Arsitida rufescens* (endemic, grazed), *Aristida tenuissima* (endemic, not grazed), *Schizachyrium sanguineum* (native, grazed), *Hyparrhenia rufa* (native, grazed), *Heteropogon contortus* (native, grazed), *Ctenium concinnum* (native, not grazed), *Sporobolus centrifugus* (native, not grazed), *Sporobolus pyramidalis* (native, grazed).



#### Nanjarisoa Olinirina Prisca

Mpikaroka momba ny bozaka aman'ahitra,  
Royal Botanic Gardens Kew Madagascar  
Grass botanist, Royal Botanic Gardens  
Kew Madagascar











## FAMPIDIRANA ANKAPOBENY

Madagasikara no nosy fahaefatra lehibe indrindra maneran-tany izay manana velaran-tany manodidina ny 587000 km<sup>2</sup>. Manana endrika miavaka i Madagasikara noho ireo vohon-tany maro samihafa misy ao aminy, toy ny tendrombohitra, lohasaha sy toerana iva, izay mahatonga ny fisian'ireo rohivoary samihafa ao aminy. Izany fiovaovana ara-tontolo iainana izany, tafiditra ao anatin'izany ny fahasamihafan'ny marimpana sy ny tahan'ny rotsakorana isam-paritra ary ny fiovaovany manaraka ny vanimpotoana, no mamaritra sy mifehy ny firafitry ny zavamaniry sy ny fipariahan'izy ireo manerana an'i Madagasikara. Ny faritra antsinan'i Madagasikara dia mando mandavataona, manana ny tahana rotsakorana ambony indrindra mandritry ny taona, ka ahitana ala amorontsiraka sy ala mando maitso mandavantaona. Ny faritra andrefana sy ny tendrony avaratra kosa dia maina satria kelikely ny tahan'ny rotsakorana, ka ala maina mihitsan-dravina sy fatrana na hivoka no tena hita any. Ny tapany avaratra-andrefan'i Madagasikara (miaraka amin'i Nosy Be) indray dia mandomando ihany ka ala maina mihitsan-dravina amin'ny ampahany no misy any. Ny faritra atsimo sy atsimo andrefana kosa dia maimaina na maina tanteraka nohon'ny hakelin'ny tahan'ny rotsakorana, ka kiritra feno tsilo na alan-tsilo no maniry any, izay mampiavaka indrindra ireo faritra ireo. Farany, ny ampovoan-tany dia mandomando, ny tahan'ny rotsakorana dia miovaova ary amin'ny antonony ny haintany ka ahitana ala mando sy ala henjan-dravina an-tendrombohitra, fatrana ary kiritra anjavidy.

Mikasika ny zavamanirin'i Madagasikara manokana dia vinavinaina ho eo amin'ny 14000 isa eo ny karazany, izay mizarazara anaty sokajy miisa 1743 ary fianakaviana miisa 253. Ny tahana fahasamihafana ambony be toy izao dia taratry ny fikambanana ara-jeografika sy ara-tantara ny tanin'i Madagasikara tamin'i Afrika, India, Azia atsimo-atsinanana ary Aostralia avaratra. Amin'ireo karazany ireo dia 82% no teratany izay tsy hita afa-tsy eto Madagasikara ihany, 19% kosa izany ho an'ny sokajy, ary miisa dimy ny fianakaviana (Asteropeiaceae, Barbeuiaceae, Physenaceae, Sarcolaenaceae, sy Sphaerosepalaceae). Ny maha-ambony io tahan'ny zavamaniry teratany eto Madagasikara io dia avy amin'ny fitokana-monin'ny nosy nandritran'ny





## GENERAL INTRODUCTION

Madagascar is the fourth largest island in the world, of approximately 587,000 km<sup>2</sup>. Madagascar's landscape is remarkably diverse, ranging from mountains and valleys to plains, which allows for a wide variety of biomes to occur across the island. Combined with the regional differences in temperature, rainfall, and their seasonality, these environmental factors significantly shape the composition and distribution of Malagasy vegetation types. The eastern region is humid and experiences high year-round rainfall with littoral forests and lowland evergreen forests, whereas the west and northern tip are dry with moderate rainfall, dominated by deciduous, dry forests and savannas. Parts of northwestern Madagascar (including the Nosy Be island) are sub-humid, home to semi-deciduous forests. The south and southwest regions are semi-arid to arid, with year-round low rainfall, and are characterized by spiny thickets or spiny forests. The central region is sub-humid and has variable rainfall, including a moderate dry season, home to montane rainforests, sclerophyllous montane forests, savannas, and ericoid thickets.

Madagascar's flora is estimated to include over 14,000 scientifically recognised vascular plant species, classified into 1,743 genera and 253 families. This high species diversity reflects Madagascar's historical biogeographic connections, primarily with Africa and India, but also with southeast Asia and northern Australia. Of these species, 82% are endemic, along with 19% of genera, and five entire families (Asteropeiaceae, Barbeuiaceae, Physenaceae, Sarcolaenaceae, and Sphaerosepalaceae) known only from Madagascar. Such exceptional endemism is largely attributed to its complex geological history and long-term isolation. Madagascar was separated from Africa about 170 million years ago and from India about 88 million years ago, and has experienced significant climatic shifts since.

Among the many plant families that contribute to Madagascar's exceptional botanical diversity, Poaceae—the grass family—stands out with its high diversity along with its ecological and economic significance. Out of the approximately 12,000 species of grasses recognized worldwide, around 545 species are present in





fotoana lava sy ireo tantara ara-jeolojika hafa. Efa teo amin'ny 170 tapitrisa taona lasa teo no tafasaraka tamin'i Afrika i Madagasikara, ary 88 taona tapitrisa taona kosa no nisarahan'ny tamin'i India, ary niharana fiovaovan'ny toetrandro maro izy tao aorian'izany.

Anisan'ireo zavamaniry mandrafitra ny fahasamihafana miavaka eto Madagasikara ny fianakavian'ny bozaka na ny Poaceae, izay misongadina nohon'ny hamaroan'ny karazany sy ny anjara toerana lehibe raisiny eo amin'ny tontolo iainana sy ny toe-karena. Manodidina ny 12000 isa ny karazany maneran-tany, ary 545 amin'ireo no hita eto Madagasikara, ary ny 40% amin'ireo dia tsy hita afa-tsy eto avokoa. Misy vitsivitsy amin'ireo kosa no tsy zanatany fa naiditra teto mba hampiasaina amin'ny fiompiana sy fambolena na amin'ny fanaingoana. Ny bozaka dia manjaka any amin'ny hivoka sy ny fatrana izay mandrakotra ny 60% amin'ny velaran-tanin'i Madagasikara. Manana andraikitra maro ireo rohivoary ireo: manome tanim-bilona hoan'ny biby fiompy, loharanon-tsakafo sy akany ho an'ny biby sy bibikely samihafa, manampy amin'ny fanalefahana ny fiovaovan'ny toetr'andro amin'ny alalàn'ny fihazonana sy fitehirizana ny karbônina avy amin'ny rivotra, ary atao toeram-pialamboly sy fanatanterahana fombafomba nentim-paharazana. Anisan'ny andraikitra lehibe koa anefa matetika tsy dia tsikaritra amin'ny bozaka ny fanamafisany sy ny fiarovany ny nofon-tany. Rehefa mihitsana amin'ny tany sy miha-lo izy dia manampy amin'ny fiforonana tany vaovao sy miaro ny nofon-tany amin'ny kaoka avy amin'ny orana sy ny rivotra.

Tamin'ny taona manodidina ny 10000 tany ho any no nambolena karazam-bozaka fihinam-boa voalohany mba hatao sakafon'ny olombelona. Mandrak'ankehitriny, dia mbola tena manan-danja maneran-tany ny voamadinika azo avy aminy. Izy ireo dia tena ankafizina noho izy be otrikaina sy mora ambolena. Anisan'ireo karazany be mpamboly indrindra maneran-tany ny katsaka, ny vary, ny varimbazaha, ny vary orza, ny ampemba, ary ny varintsoavaly. Hoanina mivantana na avadika ho lafarinina, mofo na anaovana labiera izy ireo. Ireo karazam-bozaka famboly ireo dia efa novolena sy nofantenina anarivon-taonany lasa ka ny endriny ankehitriny dia niova tanteraka tsy mitovy amin'ny endriny tany am-boalohany. Ankoatry ny voany dia ahazoana soa hafa manan-danja ihany koa ny bozaka. Ny taho sy ny raviny sy ny ampahany hafa amin'ny bozaka dia azo ampiasaina amin'ny zavatra maro: atao sakafom-biby, atao tombokahitra na haingon-trano na haingon-tanàna, ampiasaina amin'ny fanorenana trano – hanaovana rindrina, tafo, varavarankely sy fanaka. Ny tahom-pary koa izao dia akora fototra anamboarana siramamy. Ankoatr'izany dia misy ireo karazany ahazoana menaka manitra, atao raokandro, ary ampiasaina amin'ny fombafomba ara-pivavahana sy ara-kolontsaina maro.

Asongadina anatin'ity boky ity ny lanjan'ny karazam-bozaka miisa 269 hita eto Madagasikara, izay ampiarahina amin'ny sary. Ireo fahalalana ireo dia nangonina avy amin'ny fahaiza-manaon'ireo mpahay siansa sy mpisehatra avy amin'ny sehatra isan-karazany avy amin'ny oniversite, ministera, ONG, ivon-toeram-pikarohana, ary vondrom-piarahamonina eny ifotony. Nisy ny fivoriana fifanakalozan-kevitra sy fizarana angon-drakitra notanterahina tao anatin'izany, izay nandinihina ny votoatin'ny boky sy ny fomba enti-manoratra azy. Na dia tsy mandrakotra ny karazam-bokaza rehetra eto Madagasikara aza ny boky, ary na dia tsy tanteraka aza ny fanampim-pahalalana ho an'ireo karazany sasantsasany, dia antenaina ho fototra lehibe hanitarana ny fahalalana ara-botanika ity asa ity, handrisika ny fanaovana fandalinana ara-tsiansa bebe kokoa, ary hampitombo ny fahatsiarovan-tena ny amin'ny maha-zavadehibe ny fiarovana ny zavaboary eto Madagasikara. Izahay dia mikendry ny hanohana ny ezaka maharitra amin'ny fiarovana, fandalinana ary fampidirana ny bozaka amin'ny seham-pikarohana sy ny seham-pampandrosoana, amin'ny alalàn'ny fanasongadinana ny fahasamihafany sy ny lanjan'ireo zavamaniry ireo.



Madagascar, and with about 40% endemic to the island. These include cultivated non-native species that were introduced in Madagascar for agricultural and ornamental purposes. Grasses are mostly dominant in grasslands and savannas, which cover over 60% of the land surface in Madagascar. These ecosystems serve multiple vital functions: they offer rangeland for livestock, support biodiversity by providing food and nesting material for numerous animals and insects, contribute to climate change mitigation by binding and storing carbon, and serve as spaces for recreation and traditional land use. Among the most valuable yet frequently underestimated functions of grasses is also their ability to stabilise and protect topsoil. Through their natural decomposition, they contribute to form new soil and act as a barrier against erosion caused by rain and wind.

Grasses were first cultivated for human consumption around 10,000 years ago. Today, they remain the most important food crops worldwide. Their grains are highly valued for their high energy content and can be cultivated with relative ease. The most commonly produced cereal grains worldwide are maize, rice, wheat, barley, sorghum, and oats which are all members of the grass family and are included in this book. These are consumed directly or processed into products such as flour, bread and beer. Over millennia of domestication and selection, these cultivated forms have been gradually transformed and look entirely different to their wild ancestors. In addition to their grains, grasses provide a variety of other essential resources. The stems, leaves, and other parts of the plants serve multiple purposes: they are used for grazing, ornamental lawns and gardens, and in construction—for example, in building houses, roofs, fences, and furniture. The stems of sugarcane produce the raw material to produce sugar. Additionally, grasses produce essential oils, have medicinal properties and are utilised in cultural and religious rituals.

In this book, we highlight the specific value of 269 grass species in Madagascar accompanied by photographs. The knowledge shared here was gathered from researchers and stakeholders from diverse backgrounds—academia, government ministries, NGOs, research institutions, and local communities. While it does not cover all Malagasy grasses, and information remains incomplete for some species, it is hoped that this work will serve as a valuable foundation for advancing botanical knowledge, encouraging further scientific investigation, and fostering greater recognition of the importance of Madagascar's biodiversity. By highlighting both the diversity and significance of these species, we aim to support sustained efforts in their conservation, documentation, and integration into research and development initiatives.



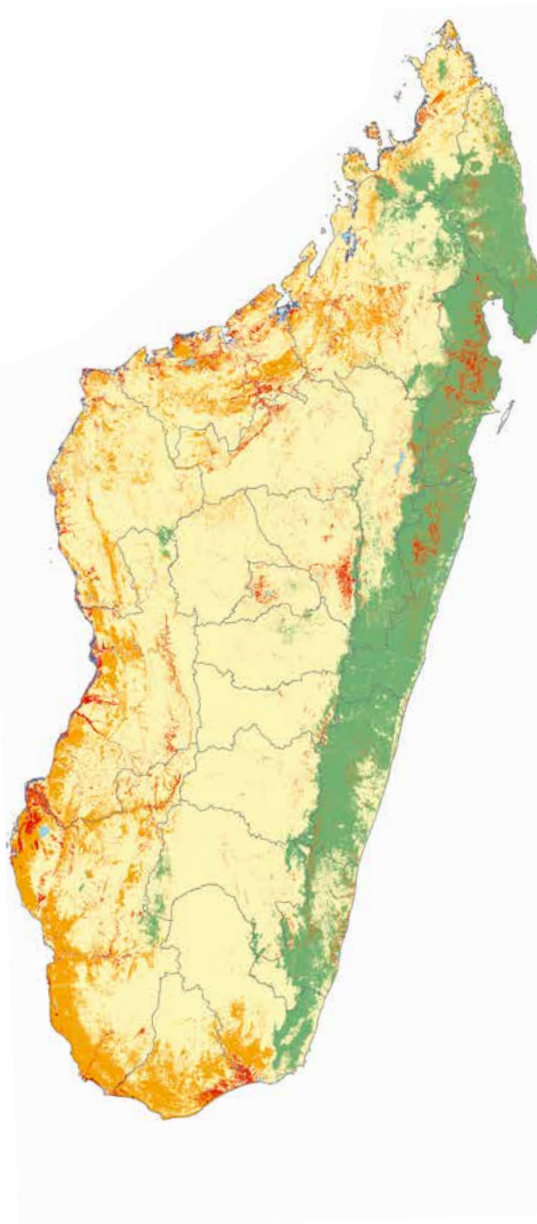








- Humid and Semihumid Forests
- Dry and Spiny Forests
- Grasslands and Woodland Savannas
- Mangroves
- Human activities





### Famaritana ny bozaka

Ny tanjon'ity topimaso fampidirana mikasika ny endrikin'ny bozaka amin'ny ankapobeny ity dia ny hanampy ny mpamaky rehetra hahazo ny teny enti-mamaritra ny bozaka izay nampiasaina anatin'ny boky. Marihana fa ny bozaka resahina anatin'ity boky ity dia tsy ireo ahi-maitso rehetra, fa ireo izay voarakitra anatin'ny fianakavian'ny 'Poaceae'. Ny ankamaroany dia manana taho malemy mora folahina, toy ny vary. Misy ihany anefa ny sasatsasany manana taho hazoana, mafy ary lehibe tahaka ny volontsangana, ny bararatan-drano sy ny fary. Ny anavahana azy amin'ny ahi-maitso hafa dia ny tahony izay miendrika fantsona maro mifampitohitohy, elanelanina vany mafy toy ny hita eny amin'ny tahom-pary. Ny raviny kosa dia mizara telo, ny foto-dravina ilay mamono ny tahony, ny felan-dravina ilay mivelatra tahaka ny ravin-kazo, ary ny sofim-bary ilay rafitra kely hita eo amin'ny fototry ny felan-dravina, manandrify ny faritra ihaonany amin'ny taho. Ny ravim-bozaka dia mifandimby mitsiry amin'ny lafiny havia sy havanan'ny tahony. Ny voniny indray dia madinika dia madinika, tsy misy felany fa kosa voafono sy voaaro anaty ravi-madinika maromaro efa niova endrika antsoina hoe atatra izay miara-mandrafitra amin'ny voniny ny atao hoe 'akotry'. Ireo akotry ireo no tazana mitsiry amin'ny sampana na rantsan'ny vondrombony. Ny voany kosa dia mafy sy maina antsoina hoe voamadinika.

Eo amin'ny vondrombony, ny akotry sy ny voany no tena ahitana ny toetra mampiavaka ny karazam-bozaka iray amin'ny karazany hafa. Kanefa, mba hahazoana antoka fa marina sy mitombona ny fanavahana, dia ilaina ny mijery ireo toetra iray manontolo ananan'ilay karazana satria betsaka amin'ireo karazany no jerena fa mitovy anefa samy hafa. Voarakitra anatin'ireo toetra voalaza ireo ny fitsingerem-piainany, ny fomba fitombony, ny fahasamihafana amin'ny habeny, ny endriny, ny lokony, ary ny firafitry ny rafitra tsirairay manomboka amin'ny fotony ka hatramin'ny voany.

### Ny endrim-piainany

Ny bozaka iray dia mitsimoka, mitombo ary mamoa. Rehefa avy mamoa izy dia na maty ary mety hanjavona tanteraka, na velona maharitra mandritran'ny fotoana maro. Izany no enti-manavaka ireo:

- Bozaka mitsiry isan-taona: mitsimoka amin'ny alalàn'ny voany isan-taona, ary maty rehefa avy mamoa. Ny faharetan'ny fahavelomany dia iray taona ihany. Matetika dia malemy sy fohy ny fakany.
- Bozaka velona mandavantaona: velona antaonany maro na mamoa na tsia. Ny fotony dia matetika mafy, matevina na misampantsapana.

### Fomba faniriny

- Mamondrona: taho maromaro no miara-mitsiry amin'ny fototra iray ka manome vondrona tokana matevina. Mijanona eo amin'io vondrona io ihany izay rantsana vaovao maniry.
- Mandrafitra tsihy mandrakotra ny tany: taho maro no miara-mitsimoka sy maniry mitsivalana ka misandrahaka mandrakotra ny tany aniriany. Maniry mitsivalana amin'ny lafiny manodidina izay rantsana vaovao mitsiry.
- Mihanaka amin'ny alalàn'ny ladina: mampihanaka taho marindrano mitsivalana antsoina hoe ladina ny fatom-bozaka iray, izay mamaka isaky ny vaniny ka miteraka zavamaniry vaovao maniry eo amin'ny manodidina azy.
- Mihanaka amin'ny alalàn'ny rizoma: mampihanaka taho ambanin'ny tany antsoina hoe rizoma ny fatom-bozaka iray, izay maniry mitsivalana ao ambanin'ny tany, mamaka ary miteraka tsimoka vaovao mba hanjanaka ny manodidina.
- Mivoivoy: maniry miparitaka amin'ny làlana samihafa fa tsy misy lamina miavaka.
- Mijoro mahitsy: maniry mitsangana ary saika mahitsy avokoa ny tahony.
- Mihilana: somary mihorirana vao mitsangana, ny tahony dia tsy mahitsy fa mihilana.
- Mitolefika: maniry mivalampatra amin'ny tany ny vatany fa ny tendrony kosa mijoro.
- Mandady na matory: maniry mitsivalana ary midaboka amin'ny tany.



### Grass Morphology

The aim of this introduction is to help readers understand the basic morphological concepts used to describe grass morphology in this book. It is important to clarify that the grasses described in this book are not all green herbaceous plants, but only those belonging to the botanical family Poaceae. Most of them have weak and foldable stems, such as those in rice plants. However, some species resemble bamboo, reeds, and sugar cane with woody stems. What sets them apart from other herbaceous plants are their tube-shaped stems, which are distinctly segmented by sturdy nodes – obviously like the sugarcane stem. Their leaves have three parts: a sheath that encloses the stem, a blade that extends like tree leaves, and a small structure called a ligule nestled at the base of leaf blade where it meets the stem. The leaves arise alternately on the left and on the right sides of the stem. Their flowers are tiny and lack petals, but they are enclosed by many modified protective leaves called glumes, lemmas and paleas that form a structure called a spikelet. These spikelets arise from branches of the inflorescence. Their grains are hard and dry, called caryopses.

The most useful features for grass species identification are usually found in their inflorescences, spikelets and grains, which can be very different from one species to another. However, to make an accurate identification, it is essential to consider the full range of traits each species possesses, as many may appear similar at first glance. These include the lifecycle, the growth patterns, the differences in size, shape, color and texture in each structure from stems to the grains.

### Life form

A grass plant germinates, grows, flowers, and sets seeds. After releasing seeds, the plant may die and disappear, or it may persist. We distinguish:

- Annual grass: grows from seed every year and dies after releasing seeds, its life span is only one year. The base of the plant is usually thin and herbaceous.
- Perennial grass: lives for many years, whether or not seeds are produced. The base of the plant is usually woody, either thick or branched.

### Growth Habit

- Caespitose: many stems grow together from the same place and form a single dense group or a tuft. New branches usually stay within the same tuft.
- Mat forming: stems grow horizontally along the ground and form a mat that covers the soil. New branches usually grow sideways.
- Stoloniferous: the grass spreads horizontal stems called stolons, which take root at new nodes and give rise to new plants that grow nearby.
- Rhizomatous: the grass root spreads by underground stems called rhizomes, which grow horizontally under the ground, take root and produce new shoots to colonize the surrounding area.
- Rambling: spread in different directions without any distinct pattern.
- Erect: growing vertically up, with the stems mostly straight.
- Ascending: growing sideways and then vertically up; the stems are curved rather than straight.
- Decumbent: reclining on the ground but with an ascending apex.
- Prostrate: growing horizontally on the ground.



### Taho

- Taho malemy: taho malefaka sy maitso, mora folahina, izay matetika maty ao anatin'ny vanim-potoana nitsiriany ihany.
- Taho hazoana: mafy sy matroka, sarotra folahina ary maharitra vanim-potoana maro

### Karazam-bondrombony

- Rantsana: rantsana no iantsoana ny vondrombony rehefa taho tsy misampana no mitondra ny vony na ny akotry. Mety ho tokan-drantsana ny vondrombony, na voarafitrana rantsana maromaro izay mety miara-mianga amina fototra iray ka misamatsaka toy ny rantsan-tanana, na mitsiry manaraka ny tahom-bondrombony.
- Sampana: sampana no iantsoana ny vondrombony rehefa taho misampantsampana no mitondra ny akotry na ny vony. Ny sampana dia manana tahom-bony maromaro izay mety hitangorongorona ka manome endrika mifintina na miendrika salohy, na misandrahandrahaka manome endrika mivelatra.

### Fiovaovana hita eny amin'ny akotry

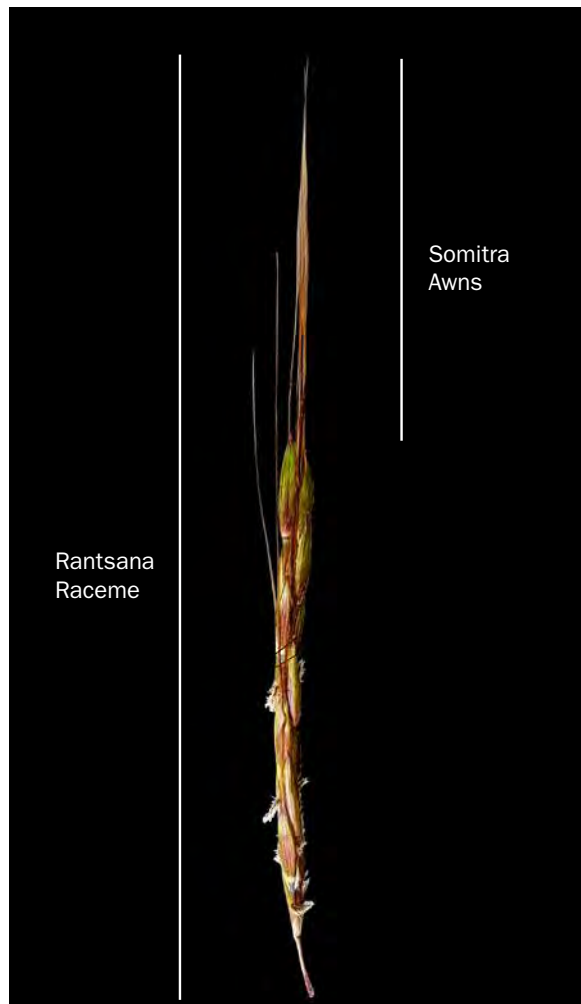
Vonim-bozaka, na voany rehefa matoy, iray na maromaro voafonona atatra (akofa) miaro azy no manome ny atao hoe akotry. Misy fotoana anefa dia poakaty ary tsy mamoa ny akotry iray. Ny akotry dia miraikitra mivantana na miraikitra amin'ny alalàna tangozana kely amin'ny tahom-bondrombony, mety mitsitokatokana na miara-droa na mitambatra maromaro manaraka ny sampam-bondrombony, mety ho kely na lehibe ihany koa. Ireto no fiovaovana tsotra indrindra hita eny amin'ny akotry hanavahana ny bozaka isan-karazany:

- Akotry misy tangozana: misy zana-taho mitondra ny akotry manokana mampiraikitra azy amin'ny tahom-bondrombony
- Akotry sesily: mitsiry mivantana amin'ny tahom-bondrombony ny akotry ary tsy misy tangozana
- Akotry iodidinam-bolo: misy rafitra majinika manjary volo eo ambanin'ny akotry

- Akotry mitsitokatokana: mipetaka tsirairay amin'ny tahom-bondrombony ny akotry fa tsy mitambatambatra
- Akotry miaraka tsiroaroa: maniry tsiroaroa ny akotry eo amin'ny tahom-bondrombony
- Akotry miaraka tsitelotelo: maniry tsitelotelo ny akotry eo amin'ny tahom-bondrombony

### Fiovaovana eny amin'ny ravina

- Voloina (misy karazam-bolo samihafa tsy voarakitra amin'ny teny malagasy): misy volo na rakotra volo, mora tazana sy tsikaritra
- Malama/tsy misy volo: tsy ahitana tamingam-bolo.
- Marokoroko na maraorao: jerena fa malama anefa misy rafitra kely be dia be mahatonga azy ho marokoroko rehefa safoina





### Stem

- Herbaceous: soft and green stems, easy to bend, which usually die during the same season they appear.
- Woody: harder and darker in colour, difficult to bend, surviving for multiple seasons.

### Type of inflorescence

- Raceme: a type of inflorescence in which the flowering axis does not branch. The inflorescence might consist of a single raceme, or, if multiple racemes are present, either they originate from the same point to create a digitate raceme, or they are arranged along the central axis.
- Panicle: a type of inflorescence in which the flowering axis branches multiple times. The flowering branches may be clustered to form a contracted panicle or a spike, or spread apart to form an open panicle.

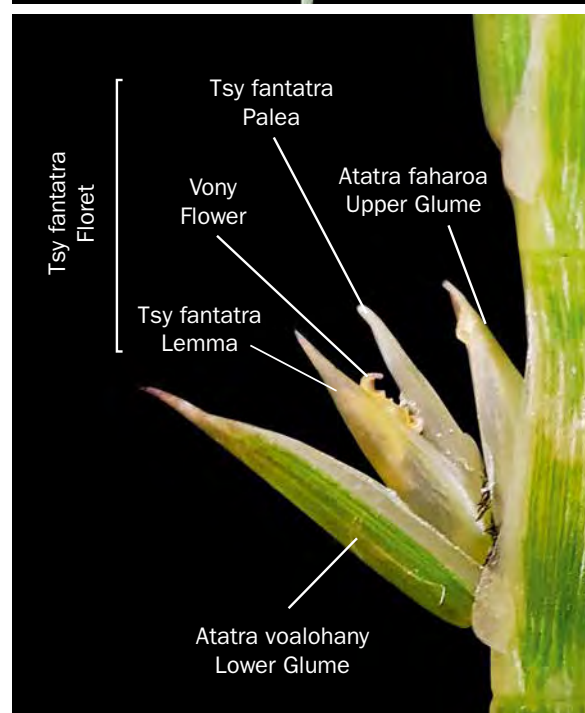
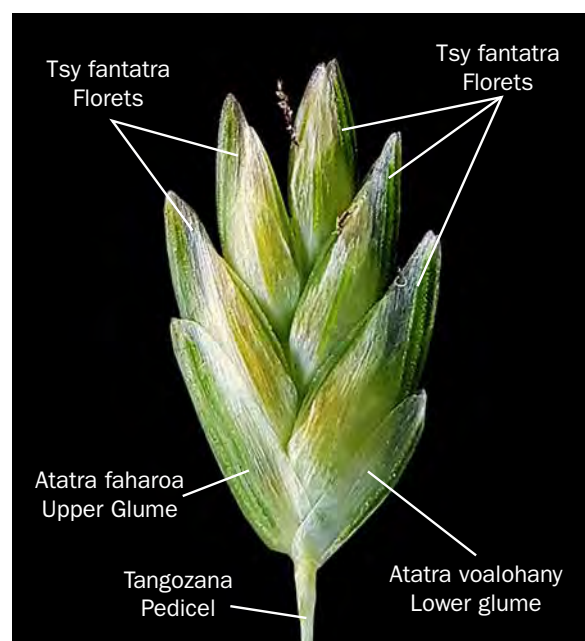
### Variation in the spikelets

The spikelet is made of one or many flower(s) or caryopses when mature, which are very tiny, with the modified leaves enclosing them together. A spikelet might be empty and sterile. The spikelet is either attached directly to the inflorescence axis or with a pedicel, is solitary or in groups of two or more, it may be small or large. These are the simplest variations we might see in the spikelet to distinguish grass species:

- Pedicelled: the spikelet is attached to the inflorescence axis by an individual stalk.
- Sessile: the spikelet arises directly from a branch, with no stalk.
- Subtended by bristles: the spikelet is subtended by long thin structures like hairs below.
- Solitary: each spikelet stands by itself on the branch, not in a group.
- In pairs: two spikelets always grow together from the same point on the inflorescence branch
- In threes: three spikelets always grow from the same point on the inflorescence branch.

### Variation in leaf surfaces

- Hairy/pubescent/hirsute/pilose/puberulous/ciliate/hispid: different types of hairs which most people can easily see.
- Smooth/glabrous: with no hairs.
- Scabrous/scaberulous: look smooth but actually has very small structures on the surface, creating a rough surface when touched.





## AHOANA NO FAMPIASANA NY BOKY

Ity boky ity dia mirakitra an-tsary ireo karazam-bozaka mahazatra sy teratany eto Madagasikara. Izay mandrakotra ny antsasa-manilan'ireo karazany misy eto amin'ny nosy. Ao amin'ny teny fampidirana no anazavana amin'ny fomba tsotra ireo teny fampiasa amaritana ny endriny izay nampiasaina ato anatin'ny boky.

Aseho isaky ny pejy ny karazany tsirairay manaraka ny filaharan'ny abidia amin'ny anarany siantifika. Hoan'ny karazany tsirairay dia aseho, akoatran'ny anarany siantifika, ny anarany malagasy, ny fanazavana ny mombamomba ny endriny amin'ny ankapobeny (ny tahony sy ny faniriny, ny raviny, ny vondromboniny sy ny voniny), ny fiparitahany aty amin'ny faritra tropikaly na ny maha-teratany azy, ny haavon'ny toerana ahitana azy, ny fampiasana azy fantatra, ary fanamarihana hafa. Ireo sivana ekolojika na ireo anton-javatra fototra ara-tontolo iainana izay mamaritra ny toerana ahafahan'ny karazana iray miaina sy mivelatra dia omena ihany koa, ary aseho amin'ny endrika kisary. Voarakitra ao anatin'izany ny fifandraisana amin'ny alok'ala, ny fifandraisana amin'ny afo, ny fahazakana tondradrano na ny fahaizana mivelona amin'ny toerana dibo-drano na mandomando, ny faharetana ngoly na hatsiaka, ny fahazakana hafanana sy main-tany, ny fahazakana tahana sira ambony na ny fahafahana maniry amin'ny toerana akaiky ranomasina, ny fahaizana mivelona manoloana ny biby izay miraoka ahitra ka mihinana azy hoan'ireo karazam-bilona, ary ny maha-ahidratsy azy na ny fahaizana miparitaka haingana amin'ny toeram-pambolena. Raha misy sivana ekolojika mahakasika ny karazany iray, dia asongadina ny kisary famantarana mifanaraka aminy ho mazava kokoa.

Ny fandaharana ny sarin'ireo karazany tsirairay dia natomboka amin'ny sarin'ilay zavamaniry amin'ny ankapobeny, avy eo ny endriky ny felan-draviny sy ny tahony, ary manaraka izany ny vondromboniny, ny akotry ary ny voniny na ny voany. Ny sary tsirairay dia nasiana ny anaran'ny mpaka sy tompon'ny sary. Ny loharano nisintomana ireo fahalalana nozaraina dia nomena ho an'ireo karazany izay efa nanaovana fikarohana manokana. Ho an'ireo kazarany izay tsy manana anarana voamarina na tsy mbola voafaritra mazava dia nasiana fanamarihana hoe 'mila fandalinana fanampiny'.

Na dia eo aza ny ezaka natao mba hanangonana araka izay azo atao ireo sary sy fahalalana rehetra misy dia mbola betsaka ny tsy fantatra momba ny bozaka aman'ahitra eto Madagasikara, ary mbola maro amin'izy ireo no tsy mbola voaala sary sy tsy mbola voafaritra mazava.





## HOW TO USE THIS BOOK

This book comprises a series of photographs showcasing the common grass species of Madagascar, representing approximately half of the island's grass diversity. In the general introduction section, you will find a simplified explanation and illustrations of the morphological terms used in this book.

Species are listed alphabetically by their scientific names, with one species presented on every page. For each species, the scientific name is followed by common Malagasy names, a description of its general morphology (habit, leaf blades, inflorescence and flowers), its distribution across the tropics or its endemism in Madagascar, the elevation ranges where it occurs, its known uses, and additional general notes. Ecological filters, which are key environmental factors that determine where species can survive and thrive, are also provided and presented with icons. These record association with shady forest cover, association with fire, adaptation to inundation or preference for flooded or very wet habitats, tolerance to freezing or cold, adaptation to aridity or presence in hot and dry habitats, tolerance to salt or appearance on sea shores, resistance to grazing or adaptations to be eaten by animals for forage species, and weediness or common invasions of agrisystems. When an ecological filter is relevant to a species, the corresponding icon is highlighted.

The photographic sequence for each species is organised starting from general views of the habit, followed by details of the leaves or stems, images of the inflorescences, spikelets, and florets or seeds. Every photograph is marked with the photographer's or team initials. References are included for species which have been the subject of focused research. In cases where species boundaries remain uncertain and nomenclature is unresolved, a note "in need of further study" is provided.

In spite of every effort to gather all the photographs and information available, much about Madagascar's grasses remains unknown, and many grasses have yet to be photographed or fully described.





Anarana siantifika  
Scientific name

Ny nanome ny anarana siantifika  
Author

PHOTOGRAPHIC FIELD GUIDE TO THE GRASSES OF MADAGASCAR

293

*Urochloa brizantha* (A.Rich.) R.D.Webster

Tsy Fantatra

Anarana Malagasy  
Common names

Taho sy ny faniriny  
Habit

Ravina  
Leaves

Vondrombony  
Inflorescence

Akotry  
Spikelets

Toerana sy ny haavo  
nahitana azy  
Distribution and  
elevation

Fampiasa azy  
Common uses

Fanampim-  
pahalalana hafa  
General notes

 Velona mandavantaona, mamondrona, taho mijoro mahitsy na mihilana

 Raviny 10–100 × 0.30–2 sm, malama

 Rantsana (1–)2–16, mitsiry manaraka ny tahony, 4–20 sm

 Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4–6 mm

 Tropika, 800–1600 m

 Vilo–maitso

 Voarakitra ao amin'ny Vorontsova 2022

 Perennial, caespitose, culms erect or ascending

 Leaf blades 10–100 × 0.30–2 cm, glabrous

 Racemes (1–)2–16, borne along a central axis, 4–20 cm long

 Spikelets solitary, fertile spikelets sessile, 4–6 mm long

 Tropics, 800–1,600 m

 Green fodder

 Information in Vorontsova 2022







MV

FMN23

MV

MV

FR

1 Monina anaty aty ala izay maizina sy maloka  
Under forest canopy

2 Mahazaka afo  
Adapted to fire

3 Monina amin'ny toerana dibo-drano na mandomando  
Flooded wet habitats

4 Monina amin'ny toerana avo sy mangatsiaka  
Cold tolerant

5 Mahazaka hain-tany sy hafanana  
Drought tolerant

6 Monina akaiky ranomasina  
Salt tolerant

7 Vilona  
Adapted to grazing

8 Ahi-dratsy  
Weed

Taho mijoro  
Erect culms

Taho velona mandavantaona  
Perennial caespitose habit

Vondrombony tokan-drantsana  
Inflorescence is a single raceme

Akotry mitsitokatokana, tsy misy tangozana  
Spikelet solitary, sessile

Fanafohezana ny anaran'ny mpaka sary  
Photographer



## ANARAN'IREO MPAKA SARY PHOTOGRAPHERS AND PHOTOGRAPHER TEAMS

**Toy izao ny fanafohezana azy:**

**The following abbreviations are used:**

|        |                                                                                                                                          |
|--------|------------------------------------------------------------------------------------------------------------------------------------------|
| DI     | Diana Rabeharison                                                                                                                        |
| DR     | David Rabehevitra                                                                                                                        |
| ER     | Solofo Eric Rakotoarisoa                                                                                                                 |
| FE     | Fenitra Randrianarimanana                                                                                                                |
| FR     | Francois Rousseu                                                                                                                         |
| KEW    | Copyright of the Royal Botanic<br>Gardens, Kew                                                                                           |
| MV     | Maria S. Vorontsova                                                                                                                      |
| NR     | Nantenaina Rakotomalala                                                                                                                  |
| RB     | Botovao Auguste Ramiaandrisoa                                                                                                            |
| RG     | Rafal Gutaker                                                                                                                            |
| DFLN22 | Diana Rabeharison, Fenitra<br>Randrianarimanana, Lorna MacKinnon,<br>and Nantenaina Rakotomalala in<br>Ankaratra and Andringitra in 2022 |
| FMN23  | Fenitra Randrianarimanana, Maria S.<br>Vorontsova, Nantenaina Rakotomalala<br>in Fandriana in 2023                                       |













## *Acrachne perrieri* (A.Camus) S.M.Phillips

Ahitsoly, Kapany, Tsipihipihina

|                                                                                   |                                                                           |                                                                                    |                                                                    |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika               |   | Annual, caespitose, culms ascending or decumbent                   |
|   | Raviny 3–10 × 0.05–0.15 sm, voloina                                       |   | Leaf blades 3–10 × 0.05–0.15 cm, pilose                            |
|   | Rantsana 2–6, misamaka na mitsiry manaraka ny tahony, 1.5–6 sm            |   | Racemes 2–6, digitate or borne along a central axis, 1.5–6 cm long |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–6 mm |   | Spikelets solitary, fertile spikelets sessile, 3–6 mm long         |
|   | Madagasikara, 0–500 m                                                     |   | Madagascar, 0–500 m                                                |
|   | Tsy misy voarakitra                                                       |   | None recorded                                                      |
|  | Mila fandalinana fanampiny                                                |  | In need of further study                                           |



MV



DR



DR



## *Acroceras boivinii* (Mez) A.Camus

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 8–10 × 0.6–0.7 sm, malama na voloina



Rantsana 5–10, mitsiry manaraka ny tahony, 0.5–2 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 4–4.5 mm



Madagasikara, 500–2100 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 8–10 × 0.6–0.7 cm, glabrous or pilose



Racemes 5–10, borne along a central axis, 0.5–2 cm long



Spikelets in pairs, fertile spikelets pedicelled, 4–4.5 mm long



Madagascar, 500–2,100 m



None recorded



In need of further study



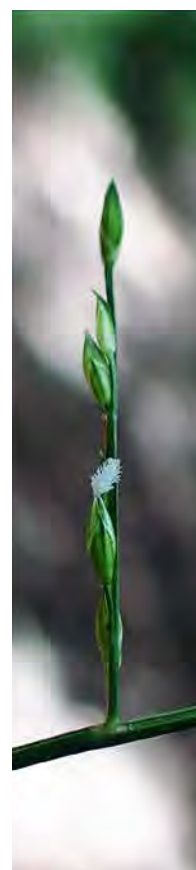
MV



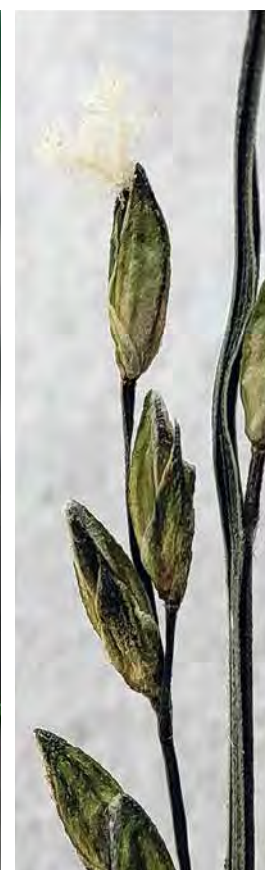
MV



MV



MV



DFLN22



## *Acroceras calcicola* A.Camus

Motrobe



Mitsiry isan-taona, mijoro mahitsy



Raviny 2–3 × 0.4–0.5 sm, voloina



Rantsana 5–10, mitsiry manaraka ny tahony, 3–3.5 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.2 mm



Madagasikara, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms erect



Leaf blades 2–3 × 0.4–0.5 cm, puberulous



Racemes 5–10, borne along a central axis, 3–3.5 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2.2 mm long



Madagascar, 0–1,200 m



None recorded



In need of further study



MV



MV



MV



## *Acroceras ivohibense* A.Camus

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 8–10 × 0.6–0.7 sm, malama na voloina



Rantsana 5–10, mitsiry manaraka ny tahony, 0.5–2 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 4–4.5 mm



Madagasikara, 700–2100 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 8–10 × 0.6–0.7 cm, glabrous or pilose



Racemes 5–10, borne along a central axis, 0.5–2 cm long



Spikelets in pairs, fertile spikelets pedicelled, 4–4.5 mm long



Madagascar, 700–2,100 m



None recorded



In need of further study



MV



MV



MV



## *Adenochloa hymeniochila* (Nees) Zuloaga

Akanimpody, Danga



Mitsiry isan-taona, taho mandady amin'ny alalan'ny rizoma



Raviny 1–10 × 0.1–0.7 sm, malama na voloina



Sampana, 4–10 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2–2.5(–3) mm



Madagasikara, 500–2500 m



Vilona ho an'ny varika sy omby



Mahazatra



Annual, rhizomatous prostrate



Leaf blades 1–10 × 0.1–0.7 cm, glabrous to pilose



Panicles, 4–10 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2–2.5(–3) mm long



Africa, Madagascar, 500–2,500 m



Forage for lemurs and cattle



Common



MV



FR



FR



FR



# *Agrostis elliotii* Hack.

Tsy Fantatra



Velona mandavantaona, taho mihilana



Raviny 10–25 × 0.3–0.5 sm, maraorao



Sampana, 5–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–4 mm



Madagasikara, 1500–2600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms ascending



Leaf blades 10–25 × 0.3–0.5 cm, scabrous



Panicle, 5–15 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.5–4 mm long



Madagascar, 1,500–2,600 m



None recorded



In need of further study



DFLN22



DFLN22



DFLN22



DFLN22



## *Agrostis emirnensis* (Baker) Bosser

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 10–20 × 0.2–0.6 sm, malama



Sampana mivelatra, 12–25 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–4 mm



Madagasikara, 800–2300 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 10–20 × 0.2–0.6 cm, glabrous



Panicle open, 12–25 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.5–4 mm long



Madagascar, 800–2,300 m



None recorded



In need of further study



MV



MV



DFLN22



## *Agrostis tsaratananensis* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mihilana



Raviny 15–20 × 0.3–0.5 sm, malama



Sampana mivelatra, 15–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–4.5 mm



Madagasikara, 1500–2100 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms ascending



Leaf blades 15–20 × 0.3–0.5 cm, glabrous



Panicle open, 15–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.5–4.5 mm long



Madagascar, 1,500–2,100 m



None recorded



In need of further study



DFLN22



DFLN22



DFLN22



## *Alloteropsis paniculata* (Benth.) Stapf

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mihilana



Raviny 15–20 × 0.3–0.5 sm, malama



Sampana mivelatra, 15–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–4.5 mm



Afrika, Madagasikara, 1500–2200 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms ascending



Leaf blades 15–20 × 0.3–0.5 cm, glabrous



Panicle open, 15–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.5–4.5 mm long



Africa, Madagascar, 1,500–2,200 m



None recorded



No notes



MV



MV



## *Alloteropsis semialata* (R.Br.) Hitchc.

Ahitomendry, Ahitrakanga, Tongolonakanga



Velona mandavantaona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 10–50 × 0.01–0.10 cm, maraorao, voloina na malama



Rantsana 2–4(–8), misamaka, 2–22 cm



Akotry 1 na 2 na maromaro no miaraka, izay misy tangozana ihany no mamoa, mirefy 4–7.5 mm



Tropika, 0–1700 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect or ascending



Leaf blades 10–50 × 0.01–0.10 cm, scabrous, hirsute or glabrous



Racemes 2–4(–8), digitate, 2–22 cm long



Spikelets solitary, in pairs or more, fertile spikelets pedicelled, 4–7.5 mm long



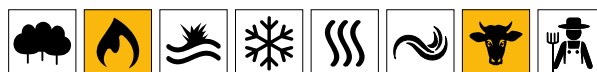
Tropics, 0–1,700 m



None recorded



No notes



FMN23



FMN23



FMN23



FMN23



*Anatherum eucomum* (Nees) Voronts. & E.A.Kellogg

Ahindroranga, Saritenona, Vero, Verodrano

|                                                                                    |                                                                                 |                                                                                     |                                                                             |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|    | Velona mandavantaona, mamondrona, mijoro mahitsy                                |    | Perennial, caespitose, culms erect                                          |
|    | Raviny 4–25 × 0.1–0.35 sm, malama fa voloina eny amin'ny tendrony               |    | Leaf blades 4–25 × 0.1–0.35 cm, glabrous to apically hirsute                |
|    | Rantsana 3–6, misamaka, 2–5 sm                                                  |    | Racemes 3–6, digitate, 2–5 cm long                                          |
|    | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–7 mm       |    | Spikelets in pairs, fertile spikelets sessile, 2–7 mm long                  |
|    | Afrika, Nosy Mascareignes (Maurice, Réunion, Rodrigues), Madagasikara, 0–1200 m |    | Africa, Mascarene Islands, Madagascar, 0–1,200 m                            |
|    | Vilona                                                                          |    | Forage                                                                      |
|  | Voarakitra ao amin'ny Vorontsova <i>et al.</i> 2013                             |  | Information in Vorontsova <i>et al.</i> 2013, Vorontsova <i>et al.</i> 2023 |





# *Anatherum ibityense* (A.Camus) Voronts. & E.A.Kellogg

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 15–25 × 0.2–0.4 sm, malama fa maraorao ny sisiny



Rantsana (4–)5–9, misamaka, 4–7.5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4.5–5.5 mm



Madagasikara, 800–2300 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova *et al.* 2013



Perennial, caespitose, culms erect



Leaf blades 15–25 × 0.2–0.4 cm, glabrous with scaberulous margins



Racemes (4–)5–9, digitate, 4–7.5 cm long



Spikelets in pairs, fertile spikelets sessile, 4.5–5.5 mm long



Madagascar, 800–2,300 m



None recorded



Information in Vorontsova *et al.* 2013, Vorontsova *et al.* 2023



MV



MV



MV



*Anatherum trichozygum* (Baker) Voronts. & E.A.Kellogg

Ahiborisoa, Ahikakonga, Ahitrakanga, Siravazaha

|                                                                                    |                                                                           |                                                                                     |                                                               |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|
|    | Velona mandavantaona, mamondrona, mijoro mahitsy                          |    | Perennial, caespitose, culms erect                            |
|    | Raviny 10–45 × 0.06–0.3(–0.55) sm, malama                                 |    | Leaf blades 10–45 × 0.06–0.3(–0.55) cm, glabrous              |
|    | Rantsana (2–)3–8, miaraka tsiroaroa, misamaka na tsia, 5–11 sm            |    | Racemes (2–)3–8, paired or digitate, 5–11 cm long             |
|    | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–6 mm |    | Spikelets in pairs, fertile spikelets sessile, 4–6 mm long    |
|    | Madagasikara, 1000–2400 m                                                 |    | Madagascar, 1,000–2,400 m                                     |
|    | Tsy misy voarakitra                                                       |    | None recorded                                                 |
|  | Voarakitra ao amin'ny Vorontsova et al. 2013                              |  | Information in Vorontsova et al. 2013, Vorontsova et al. 2023 |



DFLN22



DFLN22



DFLN22



DFLN22



## *Andropogon andringitrensis* (A.Camus) Voronts.

Tsy Fantatra



Velona mandavantaona, mitsiry tsitokatokana na mamondrona, taho mihilana



Raviny 10–20 × 0.2–0.3 sm, malama fa ny tendrony no voloina



Rantsana 2–3, miaraka tsiroaroa, misamaka na tsia, 4–8 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 5–7 mm



Madagasikara, 1200–1600 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova *et al.* 2013



Perennial, culms solitary or caespitose, culms ascending



Leaf blades 10–20 × 0.2–0.3 cm, glabrous to apically hairy



Racemes 2–3, paired or digitate, 4–8 cm long



Spikelets in pairs, fertile spikelets sessile, 5–7 mm long



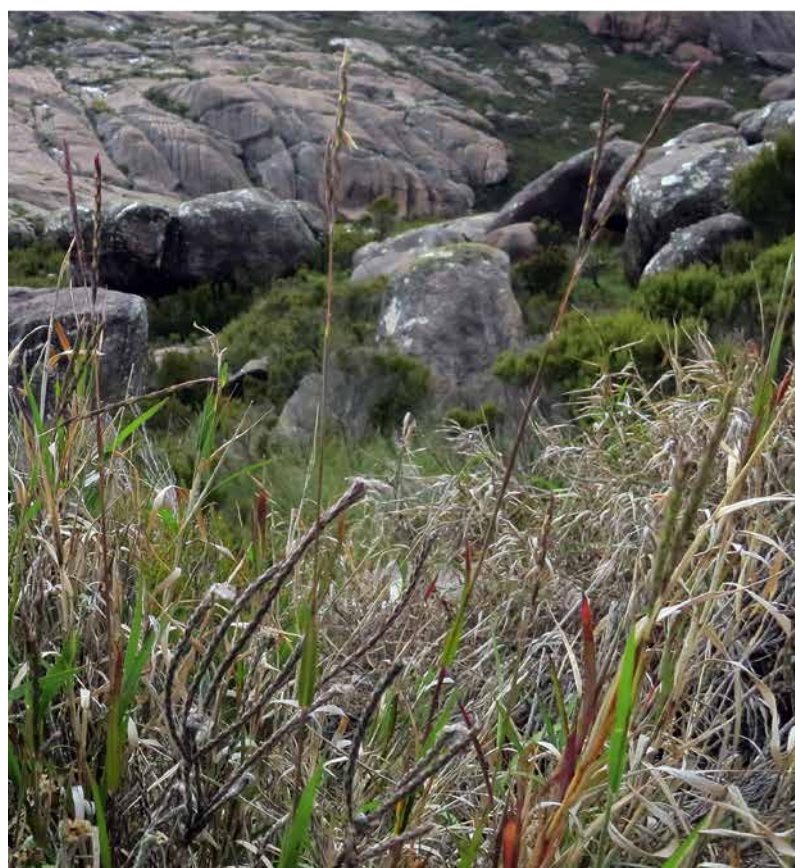
Madagascar, 1,200–1,600 m



None recorded



Information in Vorontsova *et al.* 2013



MV



MV



Anthoxanthum madagascariense Stapf

Tsy Fantatra

|                                                                                    |                                                                             |                                                                                     |                                                                 |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|    | Velona mandavantaona, mamondrona, mijoro mahitsy                            |    | Perennial, caespitose, culms erect                              |
|    | Raviny 2.5–10 × 0.3–0.4 sm, malama fa voloina ny sisiny                     |    | Leaf blades 2.5–10 × 0.3–0.4 cm, glabrous with ciliate margins  |
|    | Sampana, 3–8 sm                                                             |    | Panicle, 3–8 cm long                                            |
|    | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5–5.5 mm |    | Spikelets solitary, fertile spikelets pedicelled, 5–5.5 mm long |
|    | Madagasikara, 1500–2400 m                                                   |    | Madagascar, 1,500–2,400 m                                       |
|    | Tsy misy voarakitra                                                         |    | None recorded                                                   |
|  | Mila fandalinana fanampiny                                                  |  | In need of further study                                        |



DFLN22



DFLN22



DFLN22



# *Anthoxanthum odoratum* L.

Bozaka



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 18–30 × 0.04–0.10 cm, malama na voloina



Sampana mikombona, 4–11 cm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4–6 mm



Tropika, 1800–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 18–30 × 0.04–0.10 cm, glabrous or pubescent



Panicle contracted, 4–11 cm long



Spikelets solitary, fertile spikelets pedicelled, 4–6 mm long



Tropics, 1,800–2,200m



None recorded



In need of further study



FR



FR



FR



FR



## *Aristida adscensionis* L.

Horombavy, Kifafalahy, Pepaka, Pepeka, Sekotovololo



Mitsiry isan-taona na velona mandavantaona, taho mijoro mahitsy na mihilana na mitolefika



Annual or perennial, culms erect or ascending or decumbent



Raviny 5–20 × 0.10–0.30 sm, malama



Leaf blades 5–20 × 0.10–0.30 cm, glabrous



Sampana mivelatra na mikombona, 10–30 sm



Panicle open or contracted, 10–30 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6–12 mm



Spikelets solitary, fertile spikelets pedicelled, 6–12 mm long



Tropika, 0–1500 m



Tropics, 0–1,500 m



Tsy misy voarakitra



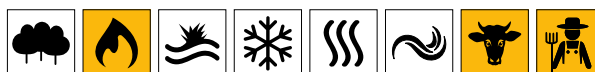
None recorded



Mahazatra



Common



FR



FR



FR



FR



# *Aristida congesta* Roem. & Schult.

Borosoy



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 2–20 × 0.10–0.20 sm, malama



Sampana, miendrika salohy, 3–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6.5–10 mm



Afrika, Madagasikara, 0–1200 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 2–20 × 0.10–0.20 cm, glabrous



Panicle, spiciform, 3–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 6.5–10 mm long



Africa, Madagascar, 0–1,200 m



None recorded



No notes



FR



FR



FR



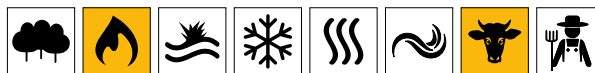
FR



## *Aristida rufescens* Steud.

Horombato, Horombavy, Horona, Kifafa, Korona, Pepeka

|                                                                                   |                                                                                                                 |                                                                                    |                                                                                                        |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona, mijoro mahitsy                                                                |   | Perennial, caespitose, culms erect                                                                     |
|   | Raviny 30–40 × ca. 0.30 sm, voloina, maraorao ny sisiny                                                         |   | Leaf blades 30–40 × ca. 0.30 cm, pubescent with scabrous margins                                       |
|   | Sampana mivelatra, 12–25 sm                                                                                     |   | Panicle open, 12–25 cm long                                                                            |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy ca. 8.5 mm                                   |   | Spikelets solitary, fertile spikelets pedicelled, ca. 8.5 mm long                                      |
|   | Madagasikara, 0–1800 m                                                                                          |   | Madagascar, 0–1,800 m                                                                                  |
|   | Vilona, tambavy manasitrana kitroto, anamboarana tafo bozaka sy kifafa, famantarana tany manta sy tsy mamokatra |   | Forage, used as a decoction against measles, used for roofs and brooms, poor and eroded soil indicator |
|  | Mahazatra                                                                                                       |  | Common                                                                                                 |



DR



DR



MV



## *Aristida similis* Steud.

Horombavy, Ahitsorohitra, Kifafavavy, Pepeky, Tsipepeky



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–15 × 0.10 sm, malama



Sampana mikombona, 7–10 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 7–8 mm



Madagasikara, 800–2200 m



Tsy misy voarakitra



Mahazatra



Perennial, caespitose, culms erect



Leaf blades, 5–15 × 0.10 cm, glabrous



Panicle contracted, 7–10 cm long



Spikelets solitary, fertile spikelets pedicelled, 7–8 mm long



Madagascar, 800–2,200 m



None recorded



Common



DR



DR



DFLN22



DR



## *Aristida tenuissima* A.Camus

Ahitsorohitra, Bozaka, Horombavy, Horona, Kifafa, Kifafalahy, Kifafavavy, Korona, Orombavy, Pepeka, Pepeky, Sekotovololo, Sekotovolohorombavy



Mitsiry isan-taona na velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 2–30 × 0.05–0.08 sm, voloina



Sampana mivelatra, 3–9 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5–6 mm



Madagasikara, 0– 2200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2013



Annual or perennial, caespitose, culms erect



Leaf blades 2–30 × 0.05–0.08 cm, hirsute



Panicle open, 3–9 cm long



Spikelets solitary, fertile spikelets pedicelled, 5–6 mm long



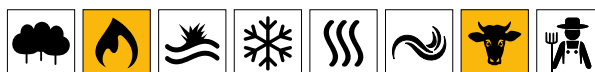
Madagascar, 0–2,200 m



None recorded



Information in Vorontsova 2013



MV



MV



MV



# *Arthraxon antsirabensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mitolefika



Raviny 1.5–6 × 0.40–0.15 sm, voloina



Rantsana 2–3, miaraka tsiroaroa, misamaka na tsia, 3–6 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 6–7.5 mm



Madagasikara, 800–2000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, caespitose, culms decumbent



Leaf blades 1.5–6 × 0.40–1.5 cm, pilose



Racemes 2–3, paired or digitate, 3–6 cm long



Spikelets in pairs, fertile spikelets sessile, 6–7.5 mm long



Madagascar, 800–2,000 m



None recorded



No notes



MV



MV



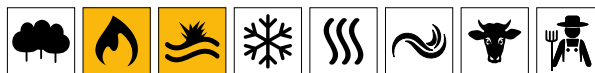
MV



## *Arundinella nepalensis* Trin.

Fantaka, Kitsangy, Tsirirahitra

|                                                                                   |                                                                             |                                                                                    |                                                               |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona, mijoro mahitsy                            |   | Perennial, caespitose, culms erect                            |
|   | Raviny 8–30 × 0.30–0.10 sm, malama na voloina                               |   | Leaf blades 8–30 × 0.30–0.10 cm, glabrous or pilose           |
|   | Sampana mivelatra, 10–40 sm                                                 |   | Panicle open, 10–40 cm long                                   |
|   | Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 4–6 mm |   | Spikelets in pairs, fertile spikelets pedicelled, 4–6 mm long |
|   | Tropika, 900–2300 m                                                         |   | Tropics, 900–2,300 m                                          |
|   | Tsy misy voarakitra                                                         |   | None recorded                                                 |
|  | Tsy misy fanamarihana                                                       |  | No notes                                                      |



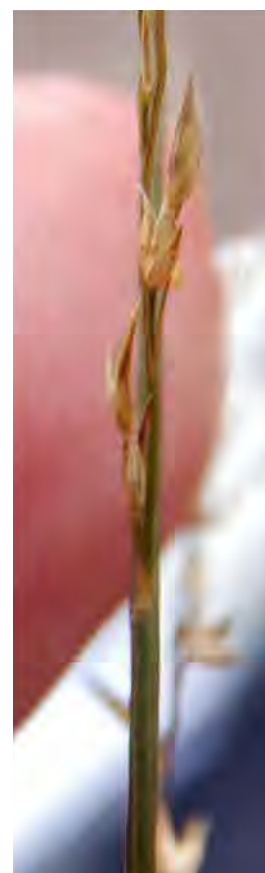
MV



MV



MV



MV



# *Avena sativa* L.

Varinisoavaly



Mitsiry isan-taona, mijoro mahitsy



Raviny 14–40 × 0.50–0.15 sm, maraorao



Sampana mivelatra, 20–40 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 22–27 mm



Tropika, 1300–1700 m



Haingon-jaridaina, Vilona



Tsy misy fanamarihana



Annual, culms erect



Leaf blades 14–40 × 0.50–0.15 cm, scaberulous



Panicle open, 20–40 cm long



Spikelets solitary, fertile spikelets pedicelled, 22–27 mm long



Tropics, 1,300–1,700 m



Ornamental plant, fodder



No notes



FR



FR



FR



FR



## *Axonopus compressus* (Sw.) P.Beauv.

Ahipisaka, Ahipisakavavy



Velona mandavantaona, mandrafitra tsihy, taho mitolefika, misy ladina



Raviny 3–20 × 0.30–0.12 sm, malama



Rantsana 2–5, miaraka tsiroaroa, misamaka na tsia, 3–10 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Tropika, 0–1700 m



Tombokahitra



Mahazatra



Perennial, mat forming, stolons present, culms decumbent



Leaf blades 3–20 × 0.30–0.12 cm, glabrous



Racemes 2–5, paired or digitate, 3–10 cm long



Spikelets solitary, fertile spikelets sessile, 2–2.5 mm long



Tropics, 0–1,700 m



Lawn



Common



FR



FR



FR



FR



## *Bothriochloa bladhii* (Retz.) S.T.Blake

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Raviny 10–55 × 0.20–0.12 sm, malama



Rantsana maro mitsiry manaraka ny tahony, 2–5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3–4 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, rhizomes short, culms erect



Leaf blades 10–55 × 0.20–0.12 cm, glabrous



Racemes numerous, borne along a central axis, 2–5 cm long



Spikelets in pairs, fertile spikelets sessile, 3–4 mm long



Tropics, 0–1,500 m



None recorded



No notes



FR



FR



FR



FR



## *Bothriochloa pertusa* (L.) A.Camus

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, misy ladina, taho mijoro mahitsy na mihilana



Raviny 5–30 × 0.25–50 sm, malama na voloina



Rantsana 3–8(–13), misamaka, 2.5–5(–7.5) sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3.8 mm



Tropika, 0–200 m



Tombokahitra



Tsy misy fanamarihana



Perennial, mat forming, stolons present, culms erect or ascending



Leaf blades 5–30 × 0.25–50 cm, glabrous or hirsute



Racemes 3–8(–13), digitate, 2.5–5(–7.5) cm long



Spikelets in pairs, fertile spikelets sessile, 3.8 mm long



Tropics, 0–200 m



Garden lawn



No notes



FR



FR



FR



FR



## *Brachiaria antsirabensis* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma fohy, taho mitolefika



Raviny 3–7 × 0.30–0.60 sm, malama na voloina



Rantsana 2–6, mitsiry manaraka ny tahony, 1–2.5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.7–3 mm



Madagasikara, 900–1800 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Perennial, caespitose, rhizomes short, culms decumbent



Leaf blades 3–7 × 0.30–0.60 cm, glabrous or pilose



Racemes 2–6, borne along a central axis, 1–2.5 cm long



Spikelets solitary, fertile spikelets pedicelled, 2.7–3 mm long



Madagascar, 900–1,800 m



None recorded



Information in Vorontsova 2022



FMN23



FMN23



FMN23



FMN23



*Brachiaria bemarivensis* A.Camus

Tsy Fantatra

|                                                                                    |                                                                               |                                                                                     |                                                                 |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|    | Mitsiry isan-taona, mandady, taho mitolefika na matory                        |    | Annual, culms decumbent or prostrate                            |
|    | Raviny 1–5 × 0.04–0.10 sm, malama na voloina                                  |    | Leaf blades 1–5 × 0.04–0.10 cm, glabrous or pilose              |
|    | Rantsana 3–8, mitsiry manaraka ny tahony, 3–6 sm                              |    | Racemes 3–8, borne along a central axis, 3–6 cm long            |
|    | Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2–2.5 mm |    | Spikelets in pairs, fertile spikelets pedicelled, 2–2.5 mm long |
|    | Madagasikara, 0–1600 m                                                        |    | Madagascar, 0–1,600 m                                           |
|    | Tsy misy voarakitra                                                           |    | None recorded                                                   |
|  | Voarakitra ao amin'ny Vorontsova 2022                                         |  | Information in Vorontsova 2022                                  |



MV



DR



MV



## *Brachiaria comorensis* (Mez) A.Camus

Tsy Fantatra



Mitsiry isan-taona, taho mijoro mahitsy na mitolefika



Raviny 6–15 × 0.10–0.15 sm, voloina



Sampana mivelatra na mikombona, 12–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.8–2.2 mm



Afrika, Nosy Mascareignes, Madagasikara, 0–1200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, culms erect or decumbent



Leaf blades 6–15 × 0.10–0.15 cm, pilose



Panicle open or contracted, 12–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.8–2.2 mm long



Africa, Mascarene Islands, Madagascar, 0–1,200 m



None recorded



Information in Vorontsova 2022



MV



MV



MV



*Brachiaria dimorpha* A.Camus

Tsy Fantatra

|                                                                                    |                                                                                 |                                                                                     |                                                                   |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|    | Velona mandavantaona na taona vitsivitsy, taho mijoro mahitsy na mihilana       |    | Perennial or short-lived, culms erect or ascending                |
|    | Raviny 1–2 × 0.20–0.40 sm, malama na voloina                                    |    | Leaf blades 1–2 × 0.20–0.40 cm, glabrous or pilose                |
|    | Rantsana 4–6, mitsiry manaraka ny tahony, 0.3–0.9 sm                            |    | Racemes 4–6, borne along a central axis, 0.3–0.9 cm long          |
|    | Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.2–2.5 mm |    | Spikelets in pairs, fertile spikelets pedicelled, 2.2–2.5 mm long |
|    | Madagasikara, 1500–2500 m                                                       |    | Madagascar, 1,500–2,500 m                                         |
|    | Tsy misy voarakitra                                                             |    | None recorded                                                     |
|  | Voaraikitra ao amin'ny Vorontsova 2022                                          |  | Information in Vorontsova 2022                                    |



MV



DFLN22



DFLN22



DFLN22

## *Brachiaria epacridifolia* (Stapf) A.Camus

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, misy ladina, taho matory



Raviny 0.5–1.5 × 0.10–0.45 sm, voloina



Rantsana 2–6, mitsiry manaraka ny tahony, 0.5–1 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2 mm



Madagasikara, 1300–2200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Perennial, mat forming, stolons present, culms prostrate



Leaf blades 0.5–1.5 × 0.10–0.45 cm, pilose



Racemes 2–6, borne along a central axis, 0.5–1 cm long



Spikelets solitary, fertile spikelets pedicelled, 2 mm long



Madagascar, 1,300–2,200 m



None recorded



Information in Vorontsova 2022



FMN23



FMN23



FMN23



FMN23



*Brachiaria subrostrata* A.Camus

Tsy Fantatra



Mitsiry isan-taona, misy ladina, taho mitolefika



Raviny 1.5–7 × 0.30–0.70 sm, voloina



Rantsana 2–5, mitsiry manaraka ny tahony, 1–2 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–3.5 mm



Tropika, 1200–1600 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, stolons present, culms decumbent



Leaf blades 1.5–7 × 0.30–0.70 cm, pilose



Racemes 2–5, borne along a central axis, 1–2 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–3.5 mm long



Tropics, 1,200–1,600 m



None recorded



Information in Vorontsova 2022



MV



MV



MV

## *Brachiaria tsiafajavonensis* A.Camus

Tsy Fantatra



Velona mandavantaona, mandady, taho matory



Raviny 7–9 × 0.70–0.80 sm, malama



Rantsana 4–8, mitsiry manaraka ny tahony, 2–2.5 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 3 mm



Madagasikara, 500–2000 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Perennial, culms prostrate



Leaf blades 7–9 × 0.70–0.80 cm, glabrous



Racemes 4–8, borne along a central axis, 2–2.5 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 3 mm long



Madagascar, 500–2,000 m



None recorded



Information in Vorontsova 2022



MV



MV



DFLN22



## *Brachiaria umbellata* (Trin.) Clayton

Fandridahy, Volonondry



Velona mandavantaona, mandrafitra tsihy, taho matory



Raviny 1–3 × 0.20–0.60 sm, malama



Rantsana 4–6, mitsiry manaraka ny tahony, 0.5–3 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2 mm



Afrika, Madagasikara, 0–1800 m



Tsy misy voarakitra



Mahazatra; voarakitra ao amin'ny Vorontsova 2022



Perennial, mat forming, culms prostrate



Leaf blades 1–3 × 0.20–0.60 cm, glabrous



Racemes 4–6, borne along a central axis, 0.5–3 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–2 mm long



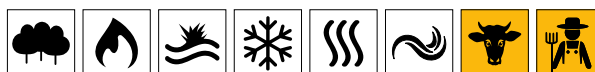
Africa, Madagascar, 0–1,800 m



None recorded



Common; Information in Vorontsova 2022



FR



DR



DR



FR

## *Brachypodium flexum* Nees

Tsy Fantatra



Velona mandavantaona, mitsiry tsitokatokana na mandrafitra tsihy, taho mitolefika



Raviny 5–17 × 0.20–0.60 sm, voloina



Tokan-drantsana, 4–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 15–30 mm



Afrika, Madagasikara, 1500–2000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, solitary or mat forming, culms decumbent



Leaf blades 5–17 × 0.20–0.60 cm, hairy to pilose



Racemes 1, 4–15 cm long



Spikelets solitary, fertile spikelets pedicelled, 15–30 mm long



Africa, Madagascar, 1,500–2,000 m



None recorded



In need of further study



FR



FR



FR



FR



*Brachypodium madagascariense* A.Camus & H.Perrier

Tsy Fantatra

|                                                                                    |                                                                             |                                                                                     |                                                                 |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|    | Velona mandavantaona, misy ladina, taho mitolefika                          |    | Perennial, stolons present, culms decumbent                     |
|    | Raviny 10–15 × 0.30–0.40 sm, voloina                                        |    | Leaf blades 10–15 × 0.30–0.40 cm, pilose to hairy               |
|    | Tokan-drantsana, 4–5 sm                                                     |    | Racemes 1, 4–5 cm long                                          |
|    | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 34–35 mm |    | Spikelets solitary, fertile spikelets pedicelled, 34–35 mm long |
|    | Madagasikara, 1000–2220 m                                                   |    | Madagascar, 1,000–2,220 m                                       |
|    | Tsy misy voarakitra                                                         |    | None recorded                                                   |
|  | Mila fandalinana fanampiny                                                  |  | In need of further study                                        |



MV

MV

MV

MV

## *Brachypodium perrieri* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma fohy, taho mijoro mahitsy na mihilana



Raviny 4–30 × 0.10–0.60 sm, voloina



Tokan-drantsana, 5–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 20–35 mm



Madagasikara, 1200–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, rhizomes short, culms erect or ascending



Leaf blades 4–30 × 0.10–0.60 cm, pubescent to hairy



Racemes 1, 5–15 cm long



Spikelets solitary, fertile spikelets pedicelled, 20–35 mm long



Madagascar, 1,200–2,200 m



None recorded



In need of further study



DFLN22



DFLN22



DFLN22



DFLN22



## *Cenchrus americanus* (L.) Morrone

Tsy Fantatra



Mitsiry isan-taona, mijoro mahitsy



Raviny 50–100 × 0.80–7.0 sm, malama



Sampana miendrika salohy, 4–200 sm



Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 3–6 mm



Afrika, Madagasikara, 0–1500 m



Sakafon'olombelona sy biby fiompy



Tsy misy fanamarihana



Annual, culms erect



Leaf blades 50–100 × 0.80–7.0 cm, glabrous



Panicle spiciform, 4–200 cm long



Spikelets subtended by bristles, fertile spikelets pedicelled, 3–6 mm long



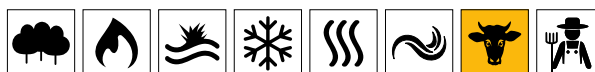
Africa, Madagascar, 0–1,500 m



Human and cattle food



No notes



MV



MV



MV



MV



## *Cenchrus ciliaris* L.

Ahitranga, Ahitokotoko, Akatanambova, Trongatse



Velona mandavantaona, mamondrona, taho mihilana



Raviny 3–25 × 0.04–0.10 sm, malama na voloina



Sampana miendrika salohy, 2–14 sm



Akotry iodidinam-bolo, 1–4 no miaraka, izay misy tangozana ihany no mamoa, mirefy 2–5.5 mm



Tropika, 0–400 m



Vilona, tombokahitra



Tsy misy fanamarihana



Perennial, caespitose, culms ascending



Leaf blades 3–25 × 0.04–0.10 cm wide, glabrous or pilose



Panicle spiciform, 2–14 cm long



Spikelets subtended by bristles, 1–4 in each cluster, fertile spikelets pedicelled, 2–5.5 mm long



Tropics, 0–400 m



Forage, garden lawn



No notes



FR



FR



FR



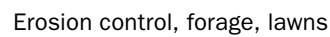
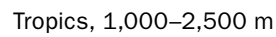
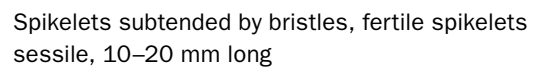
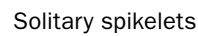
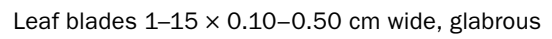
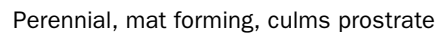
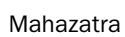
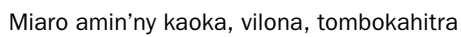
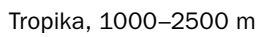
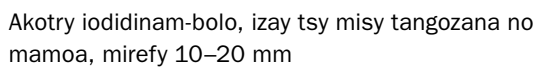
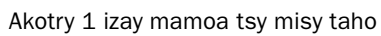
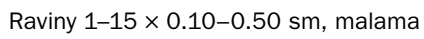
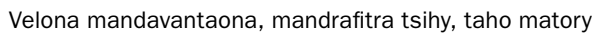
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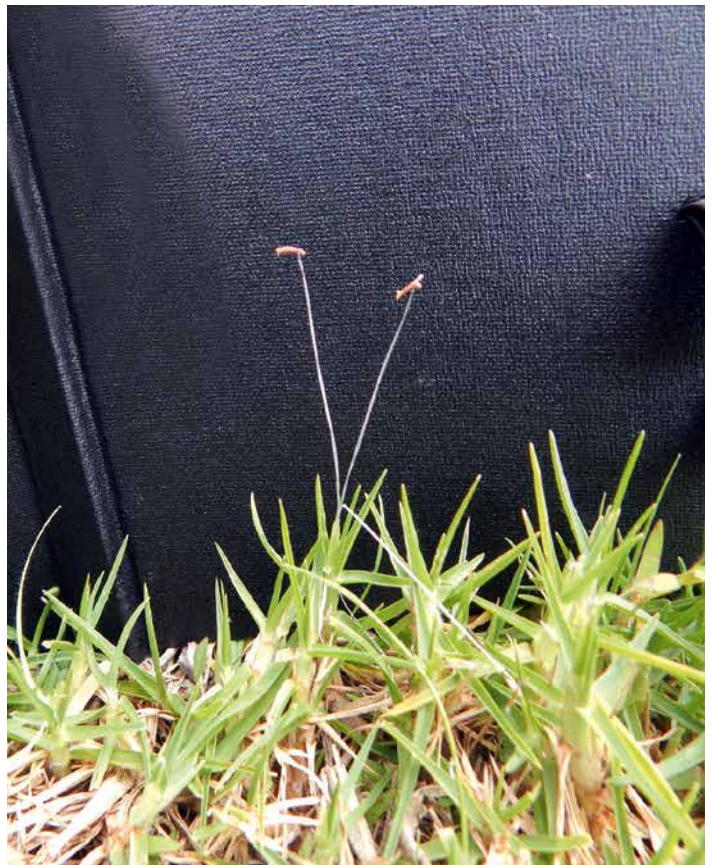
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Kikoio, Kikuyu



FMN23



FMN23



## *Cenchrus × cupreus* (Thorpe) Govaerts

Tsy Fantatra



Mitsiry isan-taona na velona mandavantaona, mamondrona, taho mijoro mahitsy



Raviny 33–52 × 0.6–1.10 sm, maraorao



Sampana miendrika salohy, 23–32 sm



Iodidinam-bolo 1–3 no miaraka, izay misy tangozana ihany no mamoa, mirefy 5.3–6.5 mm



Tropika



Haingon-tanàna



Hita ao Antananarivo



Annual or perennial, caespitose, culms erect



Leaf blades 33–52 × 0.6–1.10 cm, scaberulous



Panicle spiciform, 23–32 cm long



Spikelets subtended by bristles, 1–3 in each cluster, fertile spikelets pedicelled, 5.3–6.5 mm long



Tropics



Ornamental



In Antananarivo



MV



RG



MV



## *Cenchrus echinatus* L.

Tsy Fantatra



Mitsiry isan-taona, taho mijoro



Raviny 4–25 × 0.03–0.10 sm, malama



Sampana miendrika salohy, 2–10 sm



Akotry 1–3 no miaraka, izay tsy misy tangozana no mamoa, mirefy 5–7 mm



Tropika, 0–800 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms ascending



Leaf blades 4–25 × 0.03–0.10 cm, glabrous



Panicle spiciform, 2–10 cm long



Spikelets 1–3 in each cluster, fertile spikelets sessile, 5–7 mm long



Tropics, 0–800 m



None recorded



No notes



FR



FR



FR



FR



FR

## *Cenchrus pedicellatus* (Trin.) Morrone

Tsy Fantatra



Mitsiry isan-taona, taho mijoro



Raviny 5–25 × 0.04–0.15 sm, malama



Sampana miendrika salohy, 5–15 sm



Akotry iodidinam-bolo, 1–5 no miaraka, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 3.5–6 mm



Tropika, 0–1100 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms ascending



Leaf blades 5–25 × 0.04–0.15 cm wide, glabrous



Panicle spiciform, 5–15 cm long



Spikelets subtended by bristles, 1–5 in each cluster, fertile spikelets sessile and pedicelled, 3.5–6 mm long



Tropics, 0–1,100 m



None recorded



In need of further study



RB



RB



RB



RB



## *Cenchrus pseudotriticoides* (A.Camus) Voronts.

Horompotsy, Tohiambazaha



Velona isan-taona, mamondrona, mijoro mahitsy



Raviny 15–50 × 0.2–0.4 sm, malama



Sampana miendrika salohy, 8–20 sm



Akotry mitsitokatokana iodidinam-bolo, izay tsy misy tangozana no mamoa, mirefy 7–9 mm



Madagasikara, 1500–2200 m



Miaro amin'ny kaoka



Voarakitra ao amin'Vorontsova 2021



Perennial, caespitose, culms erect



Leaf blades 15–50 × 0.2–0.4 cm, glabrous



Panicle spiciform, 8–20 cm long



Spikelets subtended by bristles, single, fertile spikelets sessile, 7–9 mm long



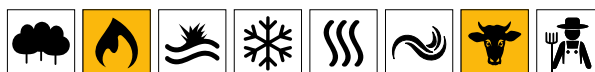
Madagascar, 1,500–2,200 m



Erosion control



Information in Vorontsova 2021



FMN23



FE



FMN23



FMN23

## *Cenchrus purpureus* (Schumach.) Morrone

Farin'omby



Velona isan-taona, misy ladina, taho mijoro mahitsy na mihilana



Raviny 30–120 × 1–5 sm, malama na voloina



Sampana miendrika salohy, 7–30 sm



Akotry iodidinam-bolo, izay tsy misy tangozana no mamoa, 4.5-7 mm



Afrika, Madagasikara, Seychelles, 0–500 m



Vilo-maitso



Tsy misy fanamarihana



Perennial, stolons present, culms erect or ascending



Leaf blades 30–120 × 1–5 cm, glabrous or hairy



Panicle spiciform, 7–30 cm long



Spikelets subtended by bristles, fertile spikelets sessile, 4.5-7 mm long



Africa, Madagascar, Seychelles, 0–500 m



Green fodder



No notes



MV



MV



MV



MV



## *Cenchrus setosus* Sw.

Rambonalika, Rambonamboa, Veroboboka



Mitsiry isan-taona na velona mandavantaona, mamondrona, taho mihilana



Raviny 10–40 × 0.03–0.16 sm, malama



Sampana miendrika salohy, 3–25 sm



Akotry mitsitokatokana iodidinam-bolo, izay tsy misy tangozana no mamoa, mirefy 2–5 mm



Tropika, 0–1800 m



Zezika



Mahazatra



Annual or perennial, caespitose, culms ascending



Leaf blades 10–40 × 0.03–0.16 cm, glabrous



Panicle spiciform, 3–25 cm long



Spikelets subtended by bristles, single, fertile spikelets sessile, 2–5 mm long



Tropics, 0–1,800 m



Compost



Common



FR



FR



DR



FR

## *Centotheca lappacea* (L.) Desv.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–20 × 0.10–0.35 sm, malama na voloina



Sampana mivelatra, 10–25 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4–5 mm



Tropika, 0–400 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 5–20 × 0.10–0.35 cm, glabrous or pilose with tubercle-based hairs



Panicle open, 10–25 cm long



Spikelets solitary, fertile spikelets 4–5 mm long, pedicelled, pedicels filiform



Tropics, 0–400 m



None recorded



No notes



MV



MV



MV



MV



## *Chasechloa madagascariensis* (Baker) A.Camus

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, rizoma lava, taho mivoivoy



Raviny 7–12 × 0.10–0.20 sm, malama



Rantsana 1–3, tokana na mitsiry manaraka ny tahony, 2.5–3.5 sm



Akotry 1 na 2 no miaraka, izay tsy misy tangozana no mamoa, mirefy 5–7 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Silva *et al.* 2017



Perennial, mat forming, rhizomes elongated, culms rambling



Leaf blades 7–12 × 0.10–0.20 cm, glabrous



Racemes 1–3, single or borne along a central axis, 2.5–3.5 cm long



Spikelets solitary or in pairs, fertile spikelets sessile, 1–2 in the cluster, 5–7 mm long



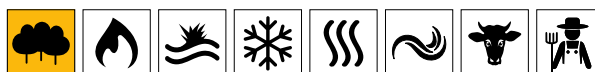
Madagascar, 0–500 m



None recorded



Information in Silva *et al.* 2017



MV



ER



ER



MV

## *Chloris barbata* Sw.

Ahikinga, Tsibora



Mitsiry isan-taona na velona mandavantaona, mamondrona, taho mihilana na mitolefika



Raviny 4–40 × 0.20–0.30 sm, maraorao



Rantsana 5–20, misamaka, 4–8 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual or perennial, caespitose, culms ascending or decumbent



Leaf blades 4–40 × 0.20–0.30 cm, scaberulous



Racemes 5–20, digitate, 4–8 cm long



Spikelets solitary, fertile spikelets sessile, 2–2.5 mm long



Tropics, 0–1,000 m



None recorded



No notes



FR



FR



FR



MV



# *Chloris gayana* Kunth

Tsy Fantatra



Velona mandavantaona, misy ladina, taho mijoro mahitsy na mihilana



Raviny 25–50 × 0.30–0.90 sm, malama



Rantsana (5–)7–20, misamaka



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.5–4 mm



Afrika, Nosy Mascareignes, Madagasikara, 0–1600 m



Vilo-maina



Ambolena amin'ny andrana famokarana kijana vonjima



Perennial, stolons present, culms erect or ascending



Leaf blades 25–50 × 0.30–0.90 cm, glabrous



Racemes (5–)7–20, digitate, 4–15 cm long



Spikelets solitary, fertile spikelets sessile, 2.5–4 mm long



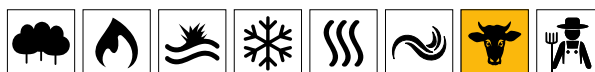
Africa, Mascarene Islands, Madagascar, 0–1,600 m



Hay



Testing forage species for short-term pastures



FR



FR



FR



FR

## *Chloris humbertiana* A.Camus

Tsy Fantatra



Velona mandavantaona, misy ladina, mijoro mahitsy



Raviny 1.5–2 × 0.30–0.50 sm, malama



Rantsana 2–3, miaraka tsiroaroa, misamaka na tsia, 3–4 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.3–3.5 mm



Madagasikara, 0–400 m



Vilona



Tsy misy fanamarihana



Perennial, stolons presents, culms erect



Leaf blades 1.5–2 × 0.30–0.50 cm, glabrous



Racemes 2–3, paired or digitate, 3–4 cm long



Spikelets solitary, fertile spikelets sessile, 2.3–3.5 mm long



Madagascar, 0–400 m



Forage



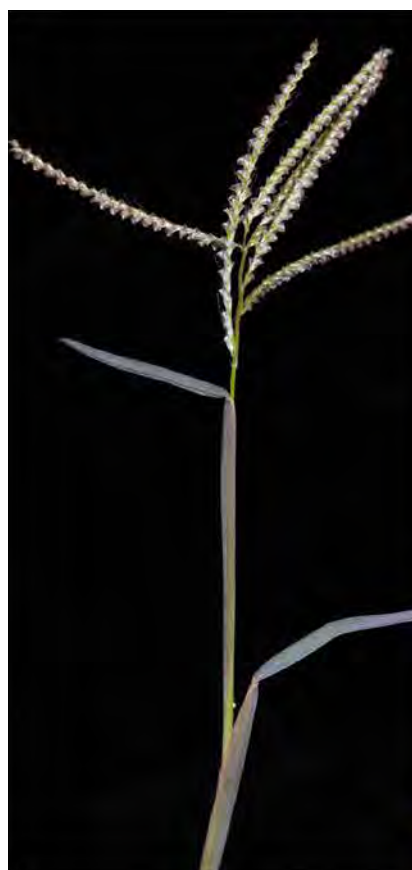
No notes



MV



ER



ER



ER



## *Chloris pilosa* Schumach.

Tsy Fantatra



Mitsiry isan-taona, taho mihilana na mitolefika



Raviny 20–35 × 0.30–0.50 sm, malama



Rantsana 3–12, misamaka, 2–10 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.5–3 mm



Afrika, Madagasikara, 0–1000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms ascending or decumbent



Leaf blades 20–35 × 0.30–0.50 cm, glabrous



Racemes 3–12, digitate, 2–10 cm long



Spikelets solitary, fertile spikelets sessile, 2.5–3 mm long



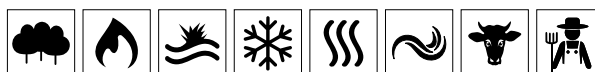
Africa, Madagascar, 0–1,000 m



None recorded



No notes



MV



MV



DR



MV

## *Chloris pycnothrix* Trin.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika



Raviny 2–10 × 0.30–0.50 sm, malama



Rantsana 2–7(–13), misamaka, 4–10 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Tropika, 0–2200 m



Tsy misy voarakitra



Mahazatra



Annual, caespitose, culms ascending or decumbent



Leaf blades 2–10 × 0.30–0.50 cm, glabrous



Racemes 2–7(–13), digitate, 4–10 cm long



Spikelets solitary, fertile spikelets sessile, 2–2.5 mm long



Tropics, 0–2,200 m



None recorded



Common



FR



FR



FR



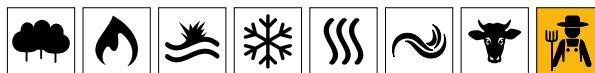
FR



# *Chloris virgata* Sw.

Tsy Fantatra

|                                                                                   |                                                                             |                                                                                    |                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika                 |   | Annual, caespitose, culms ascending or decumbent               |
|   | Raviny 10–30 × 0.20–0.60 sm, malama                                         |   | Leaf blades 10–30 × 0.20–0.60 cm, glabrous                     |
|   | Rantsana 4–12, misamaka, 2–10 sm                                            |   | Racemes 4–12, digitate, 2–10 cm long                           |
|   | Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.5–4.5 mm |   | Spikelets solitary, fertile spikelets sessile, 2.5–4.5 mm long |
|   | Tropika, 0–900 m                                                            |   | Tropics, 0–900 m                                               |
|   | Tsy misy voarakitra                                                         |   | None recorded                                                  |
|  | Tsy misy fanamarihana                                                       |  | No notes                                                       |



FR



FR



FR



FR

# *Chrysopogon serrulatus* Trin.

Ahitrombilahy, Berambo



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 10–30 × 0.20–1 sm, malama na voloina



Sampana mivelatra, 3–15 sm



Akotry miaraka tsitelotelo, izay tsy misy tangozana no mamoa, mirefy 5–8.5 mm



Tropika, 0–1500 m



Vilona



Mahazatra



Perennial, caespitose, culms erect



Leaf blades 10–30 × 0.20–1 cm, glabrous or pilose



Panicle open, 3–15 cm long



Spikelets in threes, fertile spikelets sessile, 5–8.5 mm long



Tropics, 0–1,500 m



Forage



Common



DR



DR



DR



DR



MV



# *Chrysopogon zizanioides* (L.) Roberty

Fehana, Pitivera



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Raviny 30–100 × 0.4–1 sm, maraorao



Sampana mivelatra, 15–40 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3.5–5 mm



Tropika, 0–2000 m



Miaro amin'ny fihotsahan'ny tany, faka manitra fanaovana taozavatra sy hitsaboana vavony sy tsinay mifanintontsitona, mampatory



Mahazatra



Perennial, caespitose, rhizomes short, culms erect



Leaf blades 30–100 × 0.4–1 cm, scabrous



Panicle open, 15–40 cm long



Spikelets in pairs, fertile spikelets sessile, 3.5–5 mm long



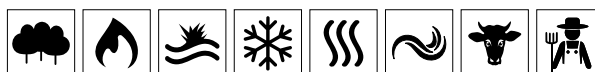
Tropics, 0–2,000 m



Erosion control, hay, aromatic roots used for crafts and as antispasmodic gastrointestinal, sedative



Common



FR



FR



FR



FR

## *Coelachne africana* Pilg.

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, taho matory



Raviny 0.6–2 × 0.15–0.45 sm, malama



Sampana mivelatra, 1.2–6 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–2.5 mm



Afrika, Madagasikara, 500–2,000 m



Tombokahitra, fanaovana menaka manitra, miaro amin'ny kaoka



Mila fandalinana fanampiny



Perennial, mat forming, culms prostrate



Leaf blades 0.6–2 × 0.15–0.45 cm, glabrous



Panicle open, 1.2–6 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–2.5 mm long



Africa, Madagascar, 500–2,000 m



Ornamental plant, aromatic oil and against erosion



In need of further study



MV



MV



MV



## *Coix lacryma-jobi* L.

Fatakana, Fatakandrano, Tsilaimbery, Tsimaromana, Vakamanitry



Mitsiry isan-taona



Raviny 10–50 × 0.25–0.50 sm, malama



Sampana



Akotry miaraka tsitelotelo, izay tsy misy tangozana no mamoa, mirefy 7–9 mm



Tropika, 0–1500 m



Vilona firavaka, azo volena ho toy ny vary na katsaka



Tsy misy fanamarihana



Annual



Leaf blades 10–50 × 0.25–0.50 cm, glabrous



Panicles



Spikelets in threes, fertile spikelets sessile, 7–9 mm long



Tropics, 0–1,500 m



Forage, jewellery, can be cultivated as cereal



No notes



FR



FR



FR



FR

# *Cortaderia selloana* (Schult. & Schult. f.) Asch. & Graebn.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 3–100 × 0.20–2 sm, malama



Sampana miendrika salohy, 3–22 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.2–6 mm



Tropika, 0–1700 m



Haingon-tanàna



Hita ao Antananarivo



Perennial, caespitose, culms erect



Leaf blades 3–100 × 0.20–2 cm, glabrous



Panicle spiciform, 3–22 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2.2–6 mm long



Tropics, 0–1,700 m



Ornamental plant



In Antananarivo



MV



MV



MV



MV



MV



## *Craspedorhachis africana* Benth.

Akatavero



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–10 × 0.10–0.30 sm, malama



Rantsana 2–10, misamaka, 6–17 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3.5–4 mm



Afrika, Madagasikara, 0–2200 m



Haingon-tanàna



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 5–10 × 0.10–0.30 cm, glabrous



Racemes 2–10, digitate, 6–17 cm long



Spikelets solitary, fertile spikelets sessile, 3.5–4 mm long



Africa, Madagascar, 0–2,200 m



Ornamental plant in cities



No notes



MV



MV



MV



MV

# *Ctenium concinnum* Nees

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 10–35 × 0.10–0.50 sm, malama



Tokan-drantsana, 5–10 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 5–6 mm



Afrika, Madagasikara, 900–2000



Haingon-trano



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 10–35 × 0.10–0.50 cm, glabrous



Racemes 1, 5–10 cm long



Spikelets solitary, fertile spikelets sessile, 5–6 mm long



Africa, Madagascar, 900–2,000



Ornamental plant



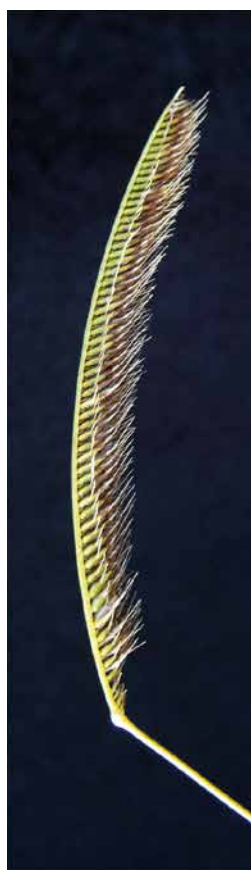
No notes



FMN23



FMN23



FMN23



FMN23



## *Cymbopogon caesius* (Hook. & Arn.) Stapf

Ahibero, Fatakamanitra, Fehana, Fiahana, Fiehana, Maroforoaha, Verofehana,  
Veromafaika, Veromanitra, Verombato



Velona mandavantaona, mamondrona, mijoro mahitsy, taho mihilana na mivoivoy



Raviny 5–30 × 0.15–0.80 sm, manitra, malama



Sampana, 5–20 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3–4.5 mm



Tropika, 0–1800 m



Vilona, haingon-trano



Mila fandalinana fanampiny



Perennial, caespitose, culms erect or ascending or rambling



Leaf blades 5–30 × 0.15–0.80 cm, aromatic, glabrous



Panicles, 5–20 cm long



Spikelets in pairs, fertile spikelets sessile, 3–4.5 mm long



Tropics, 0–1,800 m



Ornamental plant



In need of further study



MV



FMN23



FMN23



FMN23



FMN23

## *Cynodon dactylon* (L.) Pers.

Ahitrombilahy, Ahitrombivavy, Arampandrotra, Arapandrota, Fandrahana, Fandrodahy, Fandropalana, Fandrotrarana, Fandrotsana, Firifiry, Kidesy, Kidresy, Kindrese, Kindresinombilahy, Kindresivazaha, Kindresy, Rampandrotsa, Rampandrotra, Vahitsitafitahady, Vandrahana, Volonaondry



Velona mandavantaona, mandrafitra tsihy, rizoma lava, misy ladina, taho mihilana



Raviny 1–12 × 0.20–0.40 sm, maraorao na malama



Rantsana 4–6, misamaka, 1.5–6(–8) sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Tropika, 0–2400 m



Fakany miaro amin'ny bakteria, mampitony fanaintanana, mampidina ny tahan'ny siramamy, mampivalan-drano



Mila fandalinana fanampiny



Perennial, mat forming, rhizomes elongated, stolons present, culms ascending



Leaf blades 1–12 × 0.20–0.40 cm, scaberulous to glabrous



Racemes 4–6, digitate, 1.5–6(–8) cm long



Spikelets solitary, fertile spikelets sessile, 2–2.5 mm long



Tropics, 0–2,400 m



Rhizomes antibacterial, antivirals, anti-inflammatory, anti-oxidants, hypoglycemic, diuretic



In need of further study



FR



FR



FR



FR



FR



## *Cyphochlaena madagascariensis* Hack.

Agnapody, Ahifotsy, Ambody, Intsihombilona, Manimbafoana



Mitsiry isan-taona, mandady, taho matory



Raviny 2–7 × 0.4–1.4 sm, voloina



Rantsana 3–10, mitsiry manaraka ny tahony, 0.5–1 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 1.3–1.7 mm



Nosy Mascareignes, Madagasikara, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova & Rakotoarisoa 2014



Annual, culms prostrate



Leaf blades 2–7 × 0.4–1.4 cm, pilose



Racemes 3–10, borne along a central axis, 0.5–1 cm long



Spikelets in pairs, fertile spikelets pedicelled, 1.3–1.7 mm long



Mascarene Islands, Madagascar, 0–500 m



None recorded



Information in Vorontsova & Rakotoarisoa 2014



MV



MV



DR



DR



DR

## *Cyrtococcum deltoideum* (Hack.) A.Camus

Velatrahitra, Velatrahitrahy



Mitsiry isan-taona, taho matory



Raviny 1–4 × 0.4–1.3 sm, malama na voloina



Sampana mivelatra, 2–10 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2 mm



Madagasikara, 400–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, mat forming, culms prostrate



Leaf blades 1–4 × 0.4–1.3 cm, glabrous or pilose



Panicle open, 2–10 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–2 mm long



Madagascar, 400–2,200 m



None recorded



In need of further study



MV



MV



DFLN22



DFLN22



# *Cyrtococcum multinode* (Lam.) Clayton

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, taho mivoivoy



Raviny 5–20 × 0.8–2.5 sm, malama



Sampana mivelatra, 8–22 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.2–1.5 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, mat forming, culms rambling



Leaf blades 5–20 × 0.8–2.5 cm, glabrous



Panicle open, 8–22 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.2–1.5 mm long



Tropics, 0–1,500 m



None recorded



In need of further study



MV



FR



FR



FR

## *Dactyloctenium aegyptium* (L.) Willd.

Betombo, Betrihaka, Drematse, Tamatama, Tamatamaka, Tambrota, Tanatsangorita, Tranondahitra, Tsibora, Vondoha, Voatondro



Mitsiry isan-taona, mandrafitra tsihy na mamondrona, misy ladina, taho mihilana na mitolefika



Raviny 3–25 × 0.25–0.75 sm, malama



Rantsana 3–9, misamaka, 1.2–6.5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3.5–4.5 mm



Tropika, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, mat forming or caespitose, stolons present, culms ascending or decumbent



Leaf blades 3–25 × 0.25–0.75 cm, glabrous



Racemes 3–9, digitate, 1.2–6.5 cm long



Spikelets solitary, fertile spikelets sessile, 3.5–4.5 mm long



Tropics, 0–1,200 m



None recorded



In need of further study



FR



FR



FR



FR



## *Dactyloctenium australe* Steud.

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy na mamondrona, misy ladina, taho mihilana na mitolefika



Perennial, mat forming or caespitose, stolons present, culms ascending or decumbent



Raviny 5–27 × 0.25–0.45 cm, voloina



Leaf blades 5–27 × 0.25–0.45 cm, pilose



Rantsana (3–)4–5(–6), misamaka, 3.2–5 cm



Racemes (3–)4–5(–6), digitate, 3.2–5 cm long



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 5–5.5 mm



Spikelets solitary, fertile spikelets sessile, 5–5.5 mm long



Afrika, Madagasikara, 0–1000 m



Africa, Madagascar, 0–1,000 m



Tsy misy voarakitra



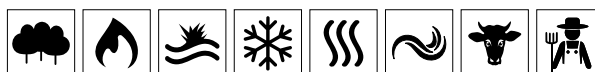
None recorded



Mila fandalinana fanampiny



In need of further study



FR



FR



FR



FR

# *Dactyloctenium ctenoides* (Steud.) Bosser

Belohalika



Mitsiry isan-taona, mandrafitra tsihy, taho mitraka na matory



Raviny 3.7–13 × 0.35–0.75 sm, malama



Rantsana (4–)5–6(–7,) misamaka, 1.4–3.3 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4–4.2 mm



Tropika, 0–350 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, mat forming, culms decumbent or prostrate



Leaf blades 3.7–13 × 0.35–0.75 cm, glabrous



Racemes (4–)5–6(–7), digitate, 1.4–3.3 cm long



Spikelets solitary, fertile spikelets sessile, 4–4.2 mm long



Tropics, 0–350 m



None recorded



In need of further study



FR



FR



FR



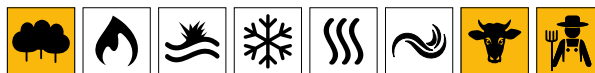
FR



## *Daknopholis boivinii* (A.Camus) Clayton

Tsy Fantatra

|                                                                                   |                                                                             |                                                                                    |                                                                |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------|
|   | Mitsiry isan-taona, mijoro mandrafitra tsihy, misy ladina, taho mihilana    |   | Annual, mat forming, stolons present, culms ascending          |
|   | Raviny 1–3.5 × 0.20–0.50 sm, malama                                         |   | Leaf blades 1–3.5 × 0.20–0.50 cm, glabrous                     |
|   | Rantsana 2–4, misamaka, 2.5–6 sm                                            |   | Racemes 2–4, digitate, 2.5–6 cm long                           |
|   | Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 1.5–2.5 mm |   | Spikelets solitary, fertile spikelets sessile, 1.5–2.5 mm long |
|   | Afrika, Madagasikara, 0–500 m                                               |   | Africa, Madagascar, 0–500 m                                    |
|   | Tsy misy voarakitra                                                         |   | None recorded                                                  |
|  | Mahazatra                                                                   |  | Common                                                         |



FR



ER



FR



FR



FR

## *Decaryella madagascariensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, taho mitolefika



Raviny 1.5–3.5 × 0.1–0.2 sm, malama



Tokan-drantsana, 4–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6–8.5 mm



Madagasikara, 0–800 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova & Rakotoarisoa 2014



Annual, culms decumbent



Leaf blades 1.5–3.5 × 0.1–0.2 cm, glabrous



Racemes 1, 4–12 cm long



Spikelets solitary, fertile spikelets pedicelled, 6–8.5 mm long



Madagascar, 0–800 m



None recorded



Information in Vorontsova & Rakotoarisoa 2014



MV



MV



MV



MV



## *Dichanthium annulatum* (Forssk.) Stapf

Ahipasira, Akatafotsy, Volonondry

|                                                                                   |                                                                           |                                                                                    |                                                                        |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona, taho mitolefika                         |   | Perennial, caespitose, culms decumbent                                 |
|   | Raviny 3–30 × 2–7 sm, malama                                              |   | Leaf blades 3–30 × 2–7 cm, glabrous                                    |
|   | Rantsana (1–)2–15, misamaka, 3–7 sm                                       |   | Racemes (1–)2–15, digitate, 3–7 cm long                                |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–6 mm |   | Spikelets in pairs, fertile spikelets sessile, 2–6 mm long             |
|   | Tropika, 0–500 m                                                          |   | Tropics, 0–500 m                                                       |
|   | Afangaro amin'ny karazam-bozaka hafa ho lasa kijana amin'ny taniditra     |   | Mixed with other species to form pastures on heavy soils of low depths |
|  | Mila fandalinana fanampiny                                                |  | In need of further study                                               |



FR



FR



FR



FR



FR

## *Dichanthium aristatum* (Poir.) C.E.Hubb.

Ahipasira, Angofo, Famaky, Sarivary, Taimboriky



Velona mandavantaona, taho mitolefika



Raviny 3–25 × 0.20–0.50 sm, malama



Rantsana 1–6, misamaka, 2–8 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–5 mm



Tropika, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 3–25 × 0.20–0.50 cm, glabrous



Racemes 1–6, digitate, 2–8 cm long



Spikelets in pairs, fertile spikelets sessile, 2–5 mm long



Tropics, 0–500 m



None recorded



In need of further study



FR



FR



FR



FR



## *Diectomis fastigiata* (Sw.) P.Beauv.

Tsy Fantatra

|                                                                                   |                                                                           |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona                                            |   | Annual, caespitose                                         |
|   | Raviny 5–30 × 0.10–0.40 sm, malama                                        |   | Leaf blades 5–30 × 0.10–0.40 cm, glabrous                  |
|   | Tokan-drantsana, 2–5 sm                                                   |   | Racemes 1, 2–5 cm long                                     |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–5 mm |   | Spikelets in pairs, fertile spikelets sessile, 4–5 mm long |
|   | Tropika, 0–500 m                                                          |   | Tropics, 0–500 m                                           |
|   | Tsy misy voarakitra                                                       |   | None recorded                                              |
|  | Voarakitra ao amin'ny Vorontsova <i>et al.</i> 2013                       |  | Information in Vorontsova <i>et al.</i> 2013               |



RB



RB



RB



MV



MV

## *Digitaria ankaratrensis* A.Camus

Kimondra



Velona mandavantaona, mandrafitra tsihy, taho mitolefika, misy ladina



Raviny 0.25–1 × 0.1–0.2 sm, voloina



Tokan-drantsana, 0.3–0.8 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 1.1–1.9 mm



Madagasikara, 1600–2200 m



Famantarana tany lany tsiro, miaro amin'ny fiotsahan'ny tany



Eo an-dalam-panitsiana ny fanasokajiana



Perennial, mat forming, stolons present, culms decumbent



Leaf blades 0.25–1 × 0.1–0.2 cm, pubescent



Racemes 1, 0.3–0.8 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 1.1–1.9 mm long



Madagascar, 1,600–2,200 m



Used soil indicator, erosion control



Taxonomic treatment in preparation



DFLN22



DFLN22



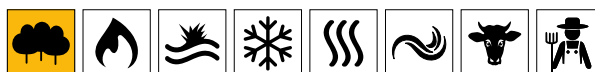
DFLN22



## *Digitaria atrofusca* (Hack.) A.Camus

Ahipisaka, Pitsikahitra

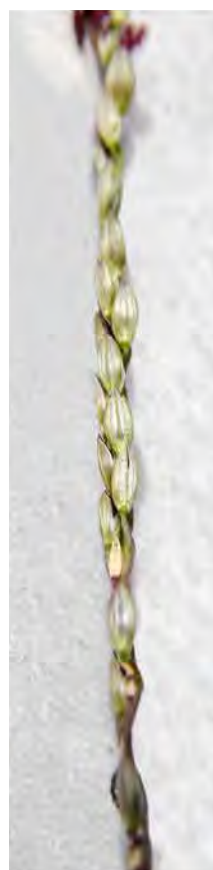
|                                                                                   |                                                                                   |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|   | Velona mandavantaona na taona vitsivitsy, taho mitolefika na mivoivoy             |   | Perennial, short-lived, culms decumbent or rambling        |
|   | Raviny 8–45 × 0.20–1.1 sm, malama                                                 |   | Leaf blades 8–45 × 0.20–1.1 cm, glabrous                   |
|   | Rantsana 3–11, misamaka, 8–22 sm                                                  |   | Racemes 3–11, digitate, 8–22 cm long                       |
|   | Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 1.8–2.7 mm |   | Spikelets 3, fertile spikelets pedicelled, 1.8–2.7 mm long |
|   | Afrika, Madagasikara, 600–1500 m                                                  |   | Africa, Madagascar, 600–1,500 m                            |
|   | Vilona                                                                            |   | Forage                                                     |
|  | Eo an-dalam-panitsiana ny fanasokajiana                                           |  | Taxonomic treatment in preparation                         |



DFLN22



DFLN22



DFLN22



DFLN22



DFLN22

## *Digitaria bicornis* (Lam.) Roem. & Schult.

Ahidahy, Ahipody



Mitsiry isan-taona, taho mitolefika



Raviny 1–17 × 0.20–0.80 sm, voloina



Rantsana 2–4, miaraka tsiroaroa, misamaka na tsia, 5–20 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 3–3.5 mm



Tropika, 130–2000 m



Vilo-maitso



Eo an-dalam-panitsiana ny fanasokajiana



Annual, culms decumbent



Leaf blades 1–17 × 0.20–0.80 cm, pilose



Racemes 2–4, paired or digitate, 5–20 cm long



Spikelets in pairs, fertile spikelets pedicelled, 3–3.5 mm long



Tropics, 130–2,000 m



Green fodder



Taxonomic treatment in preparation



DR



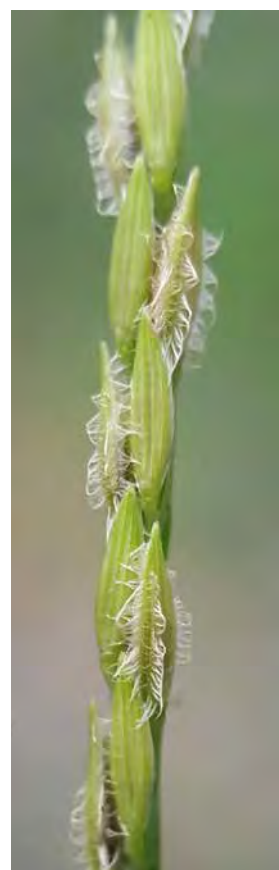
FR



FR



FR



FR



## *Digitaria horizontalis* Willd.

Ahipody, Havao, Mamakihoho, Marorantsana



Mitsiry isan-taona, taho mitolefika



Raviny 2–20 × 0.20–1.4 sm, malama



Rantsana 4–22, mitsiry manaraka ny tahony, 4–17 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2-2.5 mm



Tropika, 40–1200 m



Vilona, zezika, raviny atao tambavy hanasitranana kohoka



Eo an-dalam-panitsiana ny fanasokajiana



Annual, culms decumbent



Leaf blades 2–20 × 0.20–1.4 cm, glabrous



Racemes 4–22, borne along a central axis, 4–17 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2-2.5 mm long



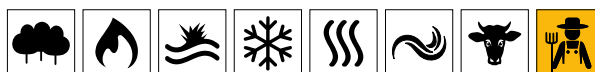
Tropics, 40–1,200 m



Forage, compost, leaves decoction treat cough



Taxonomic treatment in preparation



NR



NR



NR



NR



NR

## *Digitaria humbertii* A.Camus

Fako, Fandroahy, Fandrotrarana, Fandrotrarandahy, Fangodahy



Velona mandavantaona, mandrafitra tsihy, misy ladina, taho mitolefika na mivoivoy



Raviny 2–5 × 0.15–0.40 sm, malama na voloina



Rantsana 2–4, miaraka tsiroaroa, misamaka na tsia, 2–6 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 1.8–2.2 mm



Madagasikara, 20–2000 m



Vilona, tambavy mampivalan-drano



Eo an-dalam-panitsiana ny fanasokajiana



Perennial, mat forming, stolons present, culms decumbent or rambling



Leaf blades 2–5 × 0.15–0.40 cm, glabrous, pubescent or hirsute



Racemes 2–4, paired or digitate, 2–6 cm long



Spikelets in pairs, fertile spikelets pedicelled, 1.8–2.2 mm long



Madagascar, 20–2,000 m



Forage, diuretic



Taxonomic treatment in preparation



FR



DFLN22



DFLN22



DFLN22



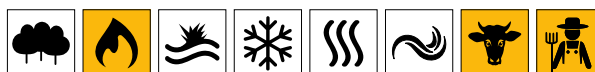
FR



## *Digitaria longiflora* (Retz.) Pers.

Ahidronono, Ahipody, Fako, Fandrotrarana, Fandrotrarana madinika, Kidresy, Kindresinambova, Kindresy

|                                                                                   |                                                                                              |                                                                                    |                                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|   | Mitsiry isan-taona na velona taona vitsivitsy, mandrafitra tsihy, misy ladina, taho mivoivoy |   | Annual or perennial, short-lived, mat forming, stolons present, culms rambling |
|   | Raviny 1–9 × 0.10–0.50 sm, malama na voloina                                                 |   | Leaf blades 1–9 × 0.10–0.50 cm, glabrous or hirsute                            |
|   | Rantsana 2–4, miaraka tsiroaroa, misamaka na tsia, 1–10 sm                                   |   | Racemes 2–4, paired or digitate, 1–10 cm long                                  |
|   | Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 1.2–1.8 mm            |   | Spikelets in threes, fertile spikelets pedicelled, 1.2–1.8 mm long             |
|   | Tropika, 0–2100 m                                                                            |   | Tropics, 0–2,100 m                                                             |
|   | Vilona, tambavy mampivalan-drano                                                             |   | Forage, diuretic                                                               |
|  | Eo an-dalam-panitsiana ny fanasokajiana                                                      |  | Taxonomic treatment in preparation                                             |



FE



MV



NR

## *Digitaria pseudodiagonalis* Chiov.

Tsy Fantatra



Velona taona maro, mandrafitra tsihy, rizoma lava, mijoro mahitsy



Raviny 5–20 × 0.20–0.70 sm, malama



Rantsana 2–4, miaraka tsiroaroa, misamaka na tsia, 3–12 sm



Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 1–1.5 mm



Afrika, Madagasikara, 1000–2500 m



Tsy misy voarakitra



Eo an-dalam-panitsiana ny fanasokajiana



Perennial, mat forming, rhizomes elongated, culms erect



Leaf blades 5–20 × 0.20–0.70 cm, glabrous



Racemes 2–4, paired or digitate, 3–12 cm long



Spikelets 3, fertile spikelets pedicelled, 1–1.5 mm long



Africa, Madagascar, 1,000–2,500 m



None recorded



Taxonomic treatment in preparation



FR



FR



MV



FR



FR



## *Digitaria radicata* (J.Presl) Miq.

Fandrotrarana



Mitsiry isan-taona, taho mivoivoy



Raviny 2–7 × 0.20–0.50 sm, malama



Rantsana 2–4, misamaka, 3–9 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.5–3.5 mm



Tropika, 0–1300 m



Tsy misy voarakitra



Eo an-dalam-panitsiana ny fanasokajiana



Annual, culms rambling



Leaf blades 2–7 × 0.20–0.50 cm, glabrous



Racemes 2–4, digitate, 3–9 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2.5–3.5 mm long



Tropics, 0–1,300 m



None recorded



Taxonomic treatment in preparation



FR



FR



FR



FR

## *Digitaria violascens* Link

Ahipody



Mitsiry isan-taona, mandrafitra tsihy, taho mihilana na mitolefika



Raviny 3–10 × 0.20–0.70 sm, malama



Rantsana (2–)3–6(–9), misamaka, 3–7 sm



Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 1.2–2 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Eo an-dalam-panitsiana ny fanasokajiana



Annual, mat forming, culms ascending or decumbent



Leaf blades 3–10 × 0.20–0.70 cm, glabrous



Racemes (2–)3–6(–9), digitate, 3–7 cm long



Spikelets in threes, fertile spikelets pedicelled, 1.2–2 mm long



Tropics, 0–1,000 m



None recorded



Taxonomic treatment in preparation



FR



FR



FR



FR



*Dimeria manongarivensis* A.Camus

Tsy Fantatra

- 

Mitsiry isan-taona, mijoro mahitsy
- 

Raviny 2–4 × 0.20–0.30 sm, voloina
- 

Rantsana miaraka tsiroaroa, 3–3.5 sm
- 

Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4 mm
- 

Madagasikara, 0–1200 m
- 

Tsy misy voarakitra
- 

Mila fandalinana fanampiny
- 

Annual, culms erect
- 

Leaf blades 2–4 × 0.20–0.30 cm, hirsute
- 

Racemes paired, 3–3.5 cm long
- 

Spikelets solitary, fertile spikelets sessile, 4 mm long
- 

Madagascar, 0–1,200 m
- 

None recorded
- 

In need of further study



MV



MV



MV

*Dinebra panicea* (Retz.) P.M.Peterson & N.Snow

Tsy Fantatra



Mitsiry isan-taona, mijoro mahitsy



Raviny 3–25 × 0.15–0.7 sm, voloina

Rantsana 4–25 mitsiry manaraka ny tahony,  
mirefy 4–25 smAkotry mitsitokatokana, izay tsy misy tangozana no  
mamoana, mirefy 1.9–2.5 mm

Madagasikara, 0–800 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms erect



Leaf blades 3–25 × 0.15–0.7 cm, hirsute



Racemes 4–25 along a central axis, 4–11 cm long

Spikelets solitary, fertile spikelets sessile,  
1.9–2.5 mm long

Madagascar, 0–800 m



None recorded



In need of further study



MV



MV



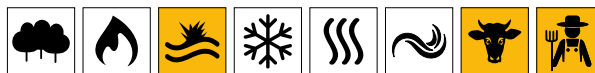
MV



## *Echinochloa colonum* (L.) Link

Ahibary, Akatambivy, Akatandrano, Famakihoho, Tsimparifary, Tsingalivary,  
Tsingarivary, Tsvakimpadisa, Varimbivy

|                                                                                   |                                                                                                |                                                                                    |                                                              |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika                                    |   | Annual, caespitose, culms ascending or decumbent             |
|   | Raviny 5–30 × 0.20–0.80 sm, malama                                                             |   | Leaf blades 5–30 × 0.20–0.80 cm, glabrous                    |
|   | Rantsana mitsiry manaraka ny tahony, 0.5–3 sm                                                  |   | Racemes borne along a central axis, 0.5–3 cm long            |
|   | Akotry miaraka tsiroaroa na mitambatambatra, izay tsy misy tangozana no mamoa, mirefy 1.5–3 mm |   | Spikelets in pairs, fertile spikelets sessile, 1.5–3 mm long |
|   | Tropika, 0–1700 m                                                                              |   | Tropics, 0–1,700 m                                           |
|   | Vilo-maitso                                                                                    |   | Green fodder                                                 |
|  | Mahazatra                                                                                      |  | Common                                                       |



MV



MV



MV



MV

## *Echinochloa crus-galli* (L.) P.Beauv.

Ahibary, Ahitsivary, Tsiparifary, Tsivakipanoto



Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika



Raviny 8–35 × 0.80–2 sm, malama



Rantsana 5–15, mitsiry manaraka ny tahony, mihilana, 2–10 sm



Akotry miaraka tsiroaroa na mitambatambatra, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 3–4 mm



Tropika, 0–1700 m



Vilo-maitso



Mila fandalinana fanampiny



Annual, caespitose, culms ascending or decumbent



Leaf blades 8–35 × 0.80–2 cm, glabrous



Racemes 5–15, borne along a central axis, 2–10 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 3–4 mm long



Tropics, 0–1,700 m



Green fodder



In need of further study



FR



FMN23



FMN23



FMN23



FMN23



FMN23



## *Echinochloa hubbardii* (A.Camus) Voronts.

Tsy Fantatra



Velona mandavantaona, misy ladina, mandrafitra tsihy, taho mihilana na matory



Raviny 1–4 × 0.1–0.2 sm, malama na voloina



Rantsana 1–4, mitangorongorona eny amin'ny tendrony, 0–0.3 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2–2.3 mm



Afrika, Madagasikara, 0–200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Perennial, stoloniferous, mat-forming, culms ascending or prostrate



Leaf blades 1–4 × 0.1–0.2 cm, glabrous or pubescent



Racemes 1–4, barely separable within capitate inflorescence, 0–0.3 cm long



Spikelets single, fertile spikelet subsessile, 2–2.3 mm long



Africa, Madagascar, 0–200 m



None recorded



Information in Vorontsova 2022



MV



MV



MV

## *Echinochloa serpens* (Kunth) Voronts.

Tsy Fantatra



Velona mandavantaona, misy ladina, mandrafitra tsihy, taho misampantsampana



Raviny  $0.7\text{--}1.5 \times 0.08\text{--}0.12$  sm, voloina be



Tokan-drantsana, 0.3–0.5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoana, mirefy 1–1.5 mm



Nosy Mascareignes, Madagasikara, 0–200 m



Vilona



Voaraitra ao amin'ny Vorontsova 2022



Perennial, stoloniferous, mat-forming, culms much branched



Leaf blades  $0.7\text{--}1.5 \times 0.08\text{--}0.12$  cm, densely pubescent



Capitate, 0.3–0.5 cm long



Spikelets single, fertile spikelet subsessile, 1–1.5 mm long



Mascarene Islands, Madagascar, 0–200 m



Forage



Information in Vorontsova 2022



NR



NR



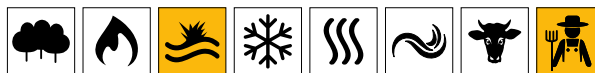
NR



## *Echinochloa stagnina* (Retz.) P.Beauv.

Ahidrano, Karangy, Karangy mena, Voanahitra

|                                                                                   |                                                                             |                                                                                    |                                                             |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------|
|   | Velona mandavantaona, rizoma lava, mandady, taho mitolefika na matory       |   | Perennial, rhizomes elongated, culms decumbent or prostrate |
|   | Raviny 10–45 × 0.30–2 sm, malama                                            |   | Leaf blades 10–45 × 0.30–2 cm, glabrous                     |
|   | Rantsana mitsiry manaraka ny tahony, 2–8 sm                                 |   | Racemes borne along a central axis, 2–8 cm long             |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3.5–6 mm |   | Spikelets in pairs, fertile spikelets sessile, 3.5–6 mm     |
|   | Tropika, 0–1200 m                                                           |   | Tropics, 0–1,200 m                                          |
|   | Vilona                                                                      |   | Forage                                                      |
|  | Mila fandalinana fanampiny                                                  |  | In need of further study                                    |



MV



DR



DR



DR

## *Eleusine indica* (L.) Gaertn.

Ahitrombilahy, Ahitrombivavy, Kindresinombilahy, Tsingetsietsy, Tsipipihina



Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika



Raviny 5–35 × 0.25–0.60 sm, malama



Rantsana 1–10(–17), tokana (mahalana) na misamaka, 3.5–15.5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3–5 mm



Tropika, 0–2000 m



Manala fanaintanana, manasitrana ratra madinidinika, miaro amin'ny tazomoka sy ny diabeta, vilona



Mahazatra



Annual, caespitose, culms ascending or decumbent



Leaf blades 5–35 × 0.25–0.60 cm, glabrous



Racemes 1–10(–17), single (rarely) or digitate, 3.5–15.5 cm long



Spikelets solitary, fertile spikelets sessile, 3–5 mm long



Tropics, 0–2,000 m



Anti-inflammatory, wound healing, antiparasmodial and antidiabetic, forage



Common



FR



FR



FR



FR



## *Elionurus tristis* Hack.

Ahipody, Ahitsoritra, Antsoro, Kofafa



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–25 × 0.10–0.30 sm, malama na voloina



Tokan-drantsana, 3–9 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–6 mm



Madagasikara, 800–2400 m



Fakany tsakoina manasitrana aretin-kibo, atao tambavy hanasitrana angatra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 5–25 × 0.10–0.30 cm, glabrous or pilose



Racemes 1, 3–9 cm long



Spikelets in pairs, fertile spikelets sessile, 4–6 mm long



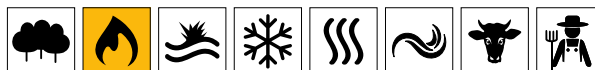
Madagascar, 800–2,400 m



Relieve colic by chewing roots, decoction treats gonorrhea



No notes



MV

MV

MV

MV

# *Enneapogon cenchroides* (Licht.) C.E.Hubb.

Tsy Fantatra



Mitsiry isan-taona na velona taona vitsivitsy, mamondrona, taho mitolefika



Raviny 3–25 × 0.30–0.70 cm, malama



Sampana mikombona, 3–20 cm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–5 mm



Tropika, 0–500 m



Vilona



Mahazatra



Annual or perennial, short-lived, caespitose, culms decumbent



Leaf blades 3–25 × 0.30–0.70 cm, glabrous



Panicle contracted, 3–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–5 mm long



Tropics, 0–500 m



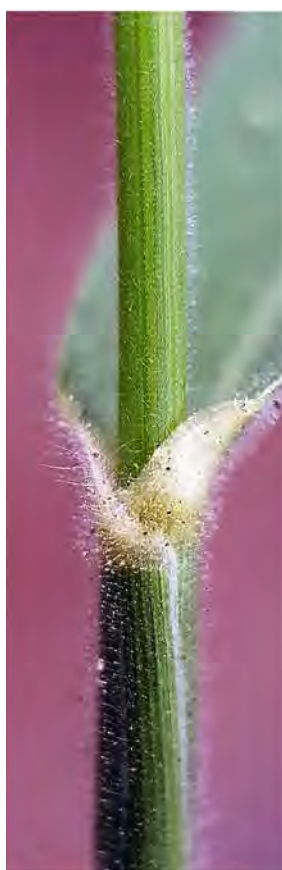
Forage



Common



FR



FR



ER



ER



ER



## *Enteropogon prieurii* (Kunth) Clayton

Tsy Fantatra



Mitsiry isan-taona, mijoro mahitsy



Raviny 10–25 × 0.30–0.70 sm, malama



Sampana 4-9, 4-12 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, 3–5 mm



Afrika, Madagasikara, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms erect



Leaf blades 10–25 × 0.30–0.70 cm, glabrous



Racemes 4–9, 4–12 cm long



Spikelets solitary, fertile spikelets sessile, 3–5 mm long



Africa, Madagascar, 0–1,200 m



None recorded



In need of further study



MV



MV



MV

# *Enteropogon sechellensis* (Baker) T.Durand & Schinz

Tsy Fantatra



Velona mandavantaona, mijoro mahitsy



Raviny 8–28 × 0.2–0.4 sm, malama



Sampana mitsitokatokana, 6–15 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, 5–10 mm



Afrika, Madagasikara, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms erect



Leaf blades 8–28 × 0.2–0.4 cm, glabrous



Raceme single, 6–15 cm long



Spikelets solitary, fertile spikelets sessile, 5–10 mm long



Africa, Madagascar, 0–500 m



None recorded



In need of further study



MV



MV



MV



MV



## *Eragrostis atrovirens* (Desf.) Trin. ex Steud.

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mihilana



Raviny 15–30 × 0.20–0.40 sm, malama



Sampana mivelatra, 4–40 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–20 mm



Tropika, 0–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms ascending



Leaf blades 15–30 × 0.20–0.40 cm, glabrous



Panicle open, 4–40 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–20 mm long



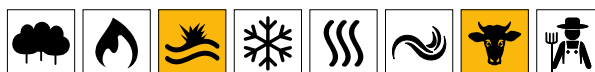
Tropics, 0–2,200 m



None recorded



In need of further study



FR



FR



FR



FR

## *Eragrostis boinensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 3–5 × 0.10–0.20 sm, voloina



Sampana mikombona, 3–25 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 6–25 mm



Madagasikara, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms erect or ascending



Leaf blades 3–5 × 0.10–0.20 cm, pilose



Panicle contracted, 3–25 cm long



Spikelets solitary, fertile spikelets sessile, 6–25 mm long



Madagascar, 0–1,200 m



None recorded



In need of further study



DR



RB



RB



RB



RB



## *Eragrostis capensis* (Thunb.) Trin.

Fangomoka, Fingomoka



Velona mandavantaona, mamondrona, rizoma fohy, taho mijoro mahitsy na mitolefika



Raviny 7–35 × 0.20–0.50 mm, malama



Sampana mivelatra na mikombona, 4–11 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–15 mm



Afrika, Madagasikara, 1000–1800 m



Haingon-trano



Mila fandalinana fanampiny



Perennial, caespitose, rhizomes short, culms erect or decumbent



Leaf blades 7–35 × 0.20–0.50 mm, glabrous



Panicle open or contracted, 4–11 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.5–15 mm long



Africa, Madagascar, 1,000–1,800 m



Ornamental plant



In need of further study



FR



FR



FMN23



FMN23

*Eragrostis capuronii* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 1–3.5 × 0.10–0.20 sm, voloina



Sampana mivelatra na mikombona, 2–12 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–8 mm



Madagasikara, 1–200 m



Tsy misy voarakitra



Mahazatra



Annual, caespitose, culms erect or ascending



Leaf blades 1–3.5 × 0.10–0.20 cm, pilose



Panicle open or contracted, 2–12 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–8 mm long



Madagascar, 1–200 m



None recorded



Common



ER



ER



ER



## *Eragrostis chabouisii* Bosser

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Annual, caespitose, culms erect or ascending



Raviny 2–5 × 0.20–0.30 sm, malama



Leaf blades 2–5 × 0.20–0.30 cm, glabrous



Sampana mivelatra, 5–18 sm



Panicle open, 5–18 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5–3 mm



Spikelets solitary, fertile spikelets pedicelled, 2.5–3 mm long



Madagasikara, 0–50 m



Madagascar, 0–50 m



Tsy misy voarakitra



None recorded



Mila fandalinana fanampiny



In need of further study



ER



ER



ER

*Eragrostis chapelieri* (Kunth) Nees

Taindambo



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 20–40 × 0.20–0.50 sm, malama



Sampana miendrika salohy, 4–22 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6–24 mm



Afrika, Madagasikara, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 20–40 × 0.20–0.50 cm, glabrous



Panicle spiciform, 4–22 cm long



Spikelets solitary, fertile spikelets pedicelled, 6–24 mm long



Africa, Madagascar, 0–1,200 m



None recorded



In need of further study



RB



RB



RB



## *Eragrostis ciliaris* (L.) R.Br.

Ahipody



Mitsiry isan-taona, mamondrona, mijoro mahitsy



Raviny 2–12 × 0.10–0.50 sm, malama



Sampana miendrika salohy, 1–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–4.5 mm



Tropika, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms erect



Leaf blades 2–12 × 0.10–0.50 cm, glabrous



Panicle spiciform, 1–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–4.5 mm long



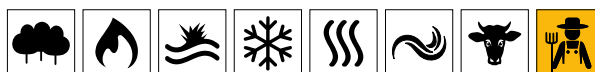
Tropics, 0–500 m



None recorded



In need of further study



FR



FR



FR



FR

## *Eragrostis curvula* (Schrad.) Nees

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 10–30 × 0.10–0.30 sm, malama



Sampana mivelatra na mikombona, 6–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4–10 mm



Afrika, Madagasikara, 1000–2000 m



Voly vilona



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 10–30 × 0.10–0.30 cm, glabrous



Panicle open or contracted, 6–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 4–10 mm long



Africa, Madagascar, 1,000–2,000 m



Forage crop



In need of further study



FR



FR



FR



FR



# *Eragrostis cylindriflora* Hochst.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 3–15 × 0.10–0.30 sm, malama



Sampana mivelatra, 6–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–10 mm



Tropika, 0–500 m



Vilona



Mila fandalinana fanampiny



Annual, caespitose, culms ascending



Leaf blades 3–15 × 0.10–0.30 cm, glabrous



Panicle open, 6–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–10 mm long



Tropics, 0–500 m



Forage



In need of further study



FR



FR



ER



FR



FR

*Eragrostis lateritica* Bosser

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 1.5–5 × 0.15–0.40 sm, malama na voloina



Sampana mivelatra na mikombona, 3–8 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–15 mm



Madagasikara, 500–2500 m



Famantarana tany kaoka



Mahazatra



Annual, caespitose, culms ascending



Leaf blades 1.5–5 × 0.15–0.40 cm, glabrous or pilose



Panicle open or contracted, 3–8 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–15 mm long



Madagascar, 500–2,500 m



Indicator of eroded soils



Common



FR



FR



FR



FR



MV



## *Eragrostis macilenta* (A.Rich.) Steud.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 2–20 × 0.20–0.50 sm, malama



Sampana mivelatra, 3–35 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–6 mm



Tropika, 1200–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms ascending



Leaf blades 2–20 × 0.20–0.50 cm, glabrous



Panicle open, 3–35 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–6 mm long



Tropics, 1,200–2,200 m



None recorded



In need of further study



FMN23



FMN23



FMN23



FMN23

*Eragrostis multiflora* Trin.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 4–20 × 3–5 sm, malama



Sampana mivelatra, 7–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5–25 mm



Tropika, 0–1600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms ascending



Leaf blades 4–20 × 3–5 cm, glabrous



Panicle open, 7–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 5–25 mm long



Tropics, 0–1,600 m



None recorded



In need of further study



DR



DR



DR



## *Eragrostis pilosa* (L.) P.Beauv.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 2–20 × 0.10–0.40 sm, malama



Sampana mivelatra, 4–25 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–7 mm



Tropika, 0–1600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms ascending



Leaf blades 2–20 × 0.10–0.40 cm, glabrous



Panicle open, 4–25 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–7 mm long



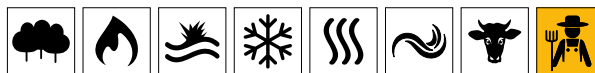
Tropics, 0–1,600 m



None recorded



In need of further study



FR



FR



FR



FR

## *Eragrostis stolonifera* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma lava, taho mijoro mahitsy na mihilana



Raviny 4–10 × 0.10–0.40 sm, malama



Sampana mivelatra, 5–10 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–6 mm



Madagasikara, 1500–2000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, rhizomes elongated, culms erect or ascending



Leaf blades 4–10 × 0.10–0.40 cm, glabrous



Panicle open, 5–10 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–6 mm long



Madagascar, 1,500–2,000 m



None recorded



In need of further study



FR



FR



FR



FR



## *Eragrostis tenella* (L.) P.Beauv. ex Roem. & Schult.

Ahipody, Horonakely

|                                                                                   |                                                                               |                                                                                    |                                                                   |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika                   |   | Annual, caespitose, culms ascending or decumbent                  |
|   | Raviny 2–9 × 0.10–0.30 sm, malama                                             |   | Leaf blades 2–9 × 0.10–0.30 cm, glabrous                          |
|   | Sampana mivelatra, 2–14 sm                                                    |   | Panicle open, 2–14 cm long                                        |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2.5 mm |   | Spikelets solitary, fertile spikelets pedicelled, 1.5–2.5 mm long |
|   | Tropika, 0–1500 m                                                             |   | Tropics, 0–1,500 m                                                |
|   | Haingon-trano                                                                 |   | Ornamental plant                                                  |
|  | Mahazatra                                                                     |  | Common                                                            |



FR



FR



FR



FR

# *Eragrostis tenuifolia* (A.Rich.) Hochst. ex Steud.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 4–30 × 0.10–0.30 sm, malama



Sampana mivelatra, 5–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4–16 mm



Tropika, 800–2000 m



Tsy misy voarakitra



Mahazatra



Perennial, caespitose, culms erect



Leaf blades 4–30 × 0.10–0.30 cm, glabrous



Panicle open, 5–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 4–16 mm long



Tropics, 800–2,000 m



None recorded



Common



FR



FR



FMN23



FR



FR



## *Eriochloa barbatus* (Trin.) S.Yadav & M.R.Almeida

Karanga, Karangy



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 3–30 × 0.20–1 sm, malama



Rantsana 3–10, mitsiry manaraka ny tahony, 1–5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–5 mm



Tropika, 500–1800 m



Tsy misy voarakitra



Mahazatra



Annual, caespitose, culms erect or ascending



Leaf blades 3–30 × 0.20–1 cm, glabrous



Racemes 3–10, borne along a central axis, 1–5 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–5 mm long



Tropics, 500–1,800 m



None recorded



Common



DFLN22



DFLN22



DFLN22



DFLN22

## *Euclasta condylotricha* (Hochst. ex Steud.) Stapf

Tsy Fantatra



Mitsiry isan-taona, mandady, taho matory



Raviny 5–25 × 0.20–1 sm, malama



Rantsana 2–15, misamaka, 2–5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3–4 mm



Tropika, 0–500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms prostrate



Leaf blades 5–25 × 0.20–1 cm, glabrous



Racemes 2–15, digitate, 2–5 cm long



Spikelets in pairs, fertile spikelets sessile, 3–4 mm long



Tropics, 0–500 m



None recorded



No notes



DR



DR



DR



## *Eulalia villosa* (Spreng.) Nees

Mafaibaratra, Vodikongo



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–25 × 0.30–0.80 sm, voloina



Rantsana 3–12, misamaka, 5–15 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 5–7 mm



Tropika, 8–2000 m



Ampiasaina amin'ny fandrefesana tahan'ny albiminina



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 5–25 × 0.30–0.80 cm, pubescent



Racemes 3–12, digitate, 5–15 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 5–7 mm long



Tropics, 8–2,000 m



Used to treat hypoalbuminemia or hyperalbuminemia



No notes



FMN23



FMN23



FMN23



FMN23

## *Festuca perrieri* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona



Raviny 8–15 × 0.10–0.20 sm, malama



Sampana mikombona, 15–18 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 10–12 mm



Madagasikara, 2000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose



Leaf blades 8–15 × 0.10–0.20 cm, glabrous



Panicle contracted, 15–18 cm long



Spikelets solitary, fertile spikelets pedicelled, 10–12 mm long



Madagascar, 2,000 m



None recorded



In need of further study



MV



MV



MV



## *Hackelochloa granularis* (L.) Kuntze

Tsikalabana



Mitsiry isan-taona, mijoro mahitsy



Raviny 2–15 × 0.40–1.2 sm, voloina



Tokan-drantsana, 0.5–1.5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms erect



Leaf blades 2–15 × 0.40–1.2 cm, hirsute



Racemes 1, 0.5–1.5 cm long



Spikelets in pairs, fertile spikelets sessile, 2–2.5 mm long



Tropics, 0–1,000 m



None recorded



In need of further study



MV



MV



MV

## *Halopyrum mucronatum* (L.) Stapf

Tsy Fantatra



Velona mandavantaona, mamondrona, misy ladina, mijoro mahitsy



Raviny 15–45 × 0.20–0.40 sm, malama



Rantsana 3–10, mitsiry manaraka ny tahony, 2–6 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 12–26 mm



Tropika, 0–300 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, stolons present, culms erect



Leaf blades 15–45 × 0.20–0.40 cm, glabrous



Racemes 3–10, borne along a central axis, 2–6 cm long



Spikelets solitary, fertile spikelets pedicelled, 12–26 mm long



Tropics, 0–300 m



None recorded



In need of further study



MV



MV



MV



## *Hemarthria altissima* (Poir.) Stapf & C.E.Hubb.

Kalahy, Tsimatiloahy, Tsimatimpanarivo



Velona mandavantaona, misy ladina, mandady, taho matory



Raviny 5–15 × 0.30–0.40 sm, malama



Tokan-drantsana, 4–10 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–6 mm



Tropika, 750–1500 m



Akora fanamboarana taratasy, vilona



Tsy misy fanamarihana



Perennial, stolons present, culms prostrate



Leaf blades 5–15 × 0.30–0.40 cm, glabrous



Racemes 1, 4–10 cm long



Spikelets in pairs, fertile spikelets sessile, 4–6 mm long



Tropics, 750–1,500 m



Cellulose plants for the manufacture of unbleached pulp, forage



No notes



FR



FR



FR



FR

## *Heteropogon contortus* (L.) P.Beauv. ex Roem. & Schult.

Ahetse, Ahidambo, Ahimoso, Ahitra, Ahitsa, Boka, Danga, Kitrofony, Kotrofony, Lefodambo, Lefonomby, Tsevondambo



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 3–30 × 0.20–0.80 sm, malama



Tokan-drantsana, 3–10 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 5.5–10 mm



Tropika, 0–1500 m



Vilona, tahony itsaboana kitroto



Mahazatra



Perennial, caespitose, culms erect



Leaf blades 3–30 × 0.20–0.80 cm, glabrous



Racemes 1, 3–10 cm long



Spikelets in pairs, fertile spikelets sessile, 5.5–10 mm long



Tropics, 0–1,500 m



Forage, culm treats measles



Common



FR



MV



DR



DR



# *Hordeum vulgare* L.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, mijoro mahitsy



Raviny 10–45 × 0.60–1.5 sm, maraorao



Tokan-drantsana, 3–8 sm



Akotry miaraka tsitelotelo, izay tsy misy tangozana no mamoa, mirefy 10–15 mm



Tropika, 800–1500 m



Fanamboarana labiera, vilona



Tsy misy fanamarihana



Annual, caespitose, culms erect



Leaf blades 10–45 × 0.60–1.5 cm, scabrous



Racemes 1, 3–8 cm long



Spikelets in threes, fertile spikelets sessile, 10–15 mm long



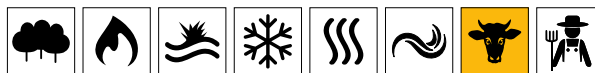
Tropics, 800–1,500 m



Beer production, forage



No notes



MV



MV



MV

# *Humbertochloa bambusiuscula* A.Camus & Stapf

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mitolefika



Raviny 2–5 × 1.4–1.8 sm, malama



Rantsana 4–6, mitsiry manaraka ny tahony, 0.3–0.4 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 8–9 mm



Madagasikara, 0–700 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms decumbent



Leaf blades 2–5 × 1.4–1.8 cm, glabrous



Racemes 4–6, borne along a central axis, 0.3–0.4 cm long



Spikelets solitary, fertile spikelets sessile, 8–9 mm long



Madagascar, 0–700 m



None recorded



No notes



DR



MV



DR



## *Hyparrhenia rufa* (Nees) Stapf

Fataka, Sy, Vero, Verobe, Verofotsy, Veromena



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Raviny 30–60 × 0.20–0.80 sm, malama



Rantsana miaraka tsiroaroa, 2–2.5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3.5–4.5 mm



Tropika, 0–1800 m



Famantarana tany lonaka, vilona, anamboarana tafo bozaka sy fefya, itsaboana androbe, ny raviny tanora totoina atao antibiôtika



Mahazatra



Perennial, caespitose, rhizomes short, culms erect



Leaf blades 30–60 × 0.20–0.80 cm, glabrous



Racemes paired, 2–2.5 cm long



Spikelets in pairs, fertile spikelets sessile, 3.5–4.5 mm long



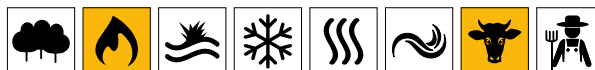
Tropics, 0–1,800 m



Fertile soil indicator, forage, used for roofs and fences, treats epilepsy, the juice of crushed young shoots is an antibiotic



Common



DR



DR



FR



FR



FMN23

# *Hyparrhenia schimperi* (Hochst. ex A.Rich.) Andersson ex Stapf

Verobe, Verombato, Verotsanjy



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Raviny 30–60 × 1.0–2.0 sm, malama



Rantsana miaraka tsiroaroa, 1.2–1.6 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–5 mm



Afrika, Madagasikara, 500–1600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, rhizomes short, culms erect



Leaf blades 30–60 × 1–2 cm, glabrous



Racemes paired, 1.2–1.6 cm long



Spikelets in pairs, fertile spikelets sessile, 4–5 mm long



Africa, Madagascar, 500–1,600 m



None recorded



In need of further study



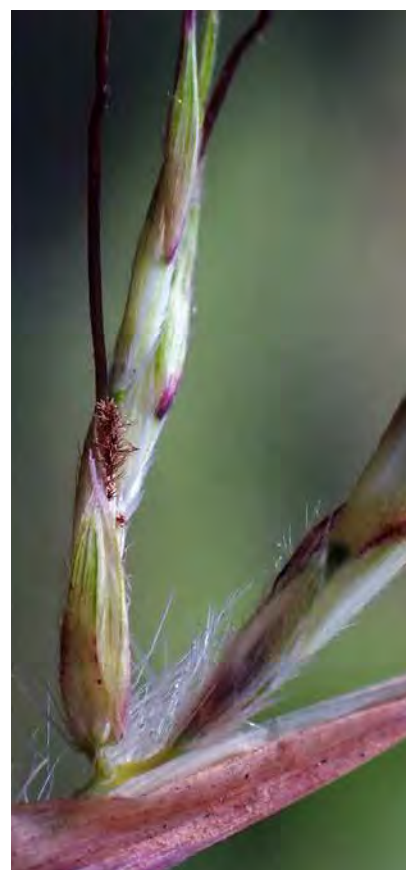
MV



FMN23



FMN23



FMN23



## *Hyparrhenia variabilis* Stapf

Verobe, Verombato, Verotsanjy

|                                                                                   |                                                                                  |                                                                                    |                                                                 |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona, rizoma fohy, taho mijoro mahitsy na mitolefika |   | Perennial, caespitose, rhizomes short, culms erect or decumbent |
|   | Raviny 25–45 × 0.60–1.5 sm, malama                                               |   | Leaf blades 25–45 × 0.60–1.5 cm, glabrous                       |
|   | Rantsana miaraka tsiroaroa, 0.8–1.3 sm                                           |   | Racemes paired, 0.8–1.3 cm long                                 |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–5 mm        |   | Spikelets in pairs, fertile spikelets sessile, 4–5 mm long      |
|   | Afrika, Nosy Mascareignes, Madagasikara, 0–1500 m                                |   | Africa, Mascarene Islands, Madagascar, 0–1,500 m                |
|   | Tsy misy voarakitra                                                              |   | None recorded                                                   |
|  | Mila fandalinana fanampiny                                                       |  | In need of further study                                        |



MV



MV



MV



MV

# *Hyperthelia dissoluta* (Nees ex Steud.) Clayton

Mangara



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 15–30 × 0.30–0.60 sm, malama



Rantsana miaraka tsiroaroa, 2–3 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3–6 mm



Afrika, Madagasikara, 0–1200 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 15–30 × 0.30–0.60 cm, glabrous



Racemes paired, 2–3 cm long



Spikelets in pairs, fertile spikelets sessile, 3–6 mm long



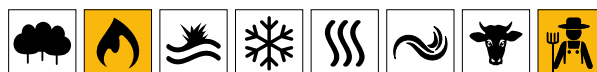
Africa, Madagascar, 0–1,200 m



None recorded



No notes



RB



RB



RB



## *Imperata cylindrica* (L.) Raeusch.

Antsoro, Fakatenina, Fehana, Manevika, Tainina, Tenina, Tenona, Tsevoka



Velona mandavantaona, rizoma lava, mijoro mahitsy



Raviny 3–100 × 0.20–2.0 sm, malama



Sampana miendrika salohy, 3–22 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.2–6 mm



Tropika, 0–1800 m



Famantarana tany lonaka, miaro amin'ny aretin'ny voa, manasitrana kitroto sy tevika, fanamboarana taratasy



Mahazatra



Perennial, rhizomes elongated, culms erect



Leaf blades 3–100 × 0.20–2 cm, glabrous



Panicle spiciform, 3–22 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2.2–6 mm long



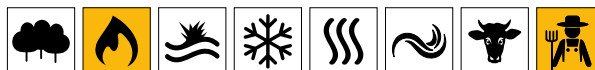
Tropics, 0–1,800 m



Humus and fertile soil indicator, hepatoprotective, treats measles and pneumonia, cellulose plants for manufacturing unbleached pulp



Common



DR



FE



FE



FE

## *Isachne mauritiana* Kunth

Ahipody tenany, Ahikibobo, Anambalia, Tsingolovolo



Velona mandavantaona, mandady, taho matory



Raviny 5–20 × 0.50–1.7 sm, malama na voloina



Sampana mivelatra, 10–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.2–1.8 mm



Tropika, 0–1800 m



Tsy misy voarakitra



Mahazatra



Perennial, culms prostrate



Leaf blades 5–20 × 0.50–1.7 cm, glabrous, pubescent or pilose



Panicle open, 10–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.2–1.8 mm long



Tropics, 0–1,800 m



None recorded



Common



FR



FR



FR



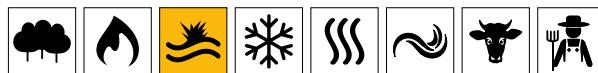
FR



# *Ischaemum heterotrichum* Hack.

Tsy Fantatra

|                                                                                   |                                                                         |                                                                                    |                                                          |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------|
|   | Velona mandavantaona, taho mivoivoy                                     |   | Perennial, culms rambling                                |
|   | Raviny 5–15 × 0.90–1.5 sm, malama                                       |   | Leaf blades 5–15 × 0.90–1.5 cm, glabrous                 |
|   | Rantsana miaraka tsiroaroa, 5–6 sm                                      |   | Racemes paired, 5–6 cm long                              |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 9 mm |   | Spikelets in pairs, fertile spikelets sessile, 9 mm long |
|   | Madagasikara, 0–1500 m                                                  |   | Madagascar, 0–1,500 m                                    |
|   | Itsaboana ny aretin'ny vanintaolana                                     |   | Treats rheumatic disorders                               |
|  | Mila fandalinana fanampiny                                              |  | In need of further study                                 |



MV



MV



MV



MV

# *Ischaemum koleostachys* (Steud.) Hack.

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 3–11 × 0.30–0.70 sm, malama



Rantsana miaraka tsiroaroa, 2–5 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4.5–5 mm



Madagasikara sy ny Nosy Mascareignes, 500–1000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect or ascending



Leaf blades 3–11 × 0.30–0.70 cm, glabrous



Racemes paired, 2–5 cm long



Spikelets in pairs, fertile spikelets sessile, 4.5–5 mm long



Madagascar, Mascarene Islands, 500–1,000



None recorded



In need of further study



FR



FR



FR



FR



FR



# *Ischaemum polystachyum* J.Presl

Tsy Fantatra

|                                                                                   |                                                                           |                                                                                    |                                                             |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------|
|   | Velona mandavantaona, rizoma lava, mandady, taho mitraka na matory        |   | Perennial, rhizomes elongated, culms decumbent or prostrate |
|   | Raviny 5–25 × 0.30–2 sm, malama na voloina                                |   | Leaf blades 5–25 × 0.30–2 cm, glabrous or pubescent         |
|   | Rantsana 2–5(–8), miaraka tsiroaroa, misamaka na tsia, 3–15 sm            |   | Racemes 2–5(–8), paired or digitate, 3–15 cm long           |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–7 mm |   | Spikelets in pairs, fertile spikelets sessile, 4–7 mm long  |
|   | Tropika, 500–1700 m                                                       |   | Tropics, 500–1,700 m                                        |
|   | Vilona                                                                    |   | Forage                                                      |
|  | Mila fandalinana fanampiny                                                |  | In need of further study                                    |



MV



MV



MV



MV

## *Ischaemum rugosum* Salisb.

Mahabanky, Remanotaky, Taimboriky



Mitsiry isan-taona, taho mitolefika



Raviny 5–30 × 0.30–1.5 sm, malama



Rantsana miaraka tsiroaroa, 3–12 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–6 mm



Tropika, 0–1700 m



Tsy misy voarakitra



Ahi-dratsy maniry an-tanim-bary



Annual, culms decumbent



Leaf blades 5–30 × 0.30–1.5 cm, glabrous



Racemes paired, 3–12 cm long



Spikelets in pairs, fertile spikelets sessile, 4–6 mm long



Tropics, 0–1,700 m



None recorded



Weeds invading rice fields in the central highlands



FE



FE



FE



NR



## *Lasiorrhachis hildebrandtii* (Hack.) Stapf

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Raviny 20–40 × 0.80–1.5 sm, malama



Sampana mivelatra, 15–25 sm



Akotry miaraka tsiroaroa, izay misy tangozana na izay tsy misy no mamoa, mirefy 5–6 mm



Madagasikara, 400–1700 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova *et al.* 2019



Perennial, caespitose, rhizomes short, culms erect



Leaf blades 20–40 × 0.80–1.5 cm, glabrous



Panicle open, 15–25 cm long



Spikelets in pairs, fertile spikelets sessile or pedicelled, 5–6 mm long



Madagascar, 400–1,700 m



None recorded



Information in Vorontsova *et al.* 2019



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## *Lasiorrhachis perrieri* (A.Camus) Bosser

Tsy Fantatra



Velona mandavantaona, mijoro mahitsy



Raviny ca. 80 × 1 sm, malama



Sampana, 20–25 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4.5–5 mm



Madagasikara, 1300–2000 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova *et al.* 2019



Perennial, culms erect



Leaf blades ca. 80 × 1 cm, glabrous



Panicle, 20–25 cm long



Spikelets in pairs, fertile spikelets sessile, 4.5–5 mm long



Madagascar, 1,300–2,000 m



None recorded



Information in Vorontsova *et al.* 2019



MV



MV



MV



## *Lasiorrhachis viguieri* (A.Camus) Bosser

Haravola, Haravolalahy



Velona mandavantaona, mamondrona, rizoma fohy, mijoro mahitsy



Perennial, caespitose, rhizomes short, culms erect



Raviny 30–70 × 0.10–0.20 sm, malama



Leaf blades 30–70 × 0.10–0.20 cm, glabrous



Sampana, 1.5–8 sm



Panicle, 1.5–8 cm long



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 7–9.5 mm



Spikelets in pairs, fertile spikelets sessile, 7–9.5 mm long



Madagasikara, 1600–2400 m



Madagascar, 1,600–2,400 m



Rary sy asa-tànana



Basketry



Voarakitra ao amin'ny Vorontsova *et al.* 2019



Information in Vorontsova *et al.* 2019



MV



MV



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# *Lecomtella madagascariensis* A.Camus

Fataka, Fatakamanga



Velona mandavantaona, taho toy ny volontsangana



Raviny 12–22 × 1.0–1.8 sm, maraorao



Sampana mikombona, 5–6 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 9–10 mm



Madagasikara, 1200–2300 m



Tsy misy voarakitra



Tsy hita afa-tsy ao Andringitra; voarakitra ao amin'ny Besnard *et al.* 2013; Vorontsova & Rakotoarisoa 2014



Perennial, thick bamboo-like culms



Leaf blades 12–22 × 1.0–1.8 cm, scabrous



Panicle contracted, 5–6 cm long



Spikelets solitary, fertile spikelets pedicelled, 9–10 mm long



Madagascar, 1,200–2,300 m



None recorded



Endemic to Andringitra; Information in Besnard *et al.* 2013; Vorontsova & Rakotoarisoa 2014



MV



MV



MV



MV



## *Leersia hexandra* Sw.

Ahikongona, Ahitsiriry, Bozabary, Hosi hosi, Tsiriry, Tsiriry an-tanimboly, Tsingirifotse, Vilombary, Vilona, Vilonahosihosi, Vilonaomby



Velona mandavantaona, rizoma lava, taho mihilana na mitolefika



Raviny 10–20 × 0.40–0.80 sm, maraorao



Sampana mivelatra, 5–12 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.4–4.8 mm



Tropika, 300–1700 m



Vilo-maitso



Mahazatra



Perennial, rhizomes elongated, culms ascending or decumbent



Leaf blades 10–20 × 0.40–0.80 cm, scaberulous



Panicle open, 5–12 cm long



Spikelets solitary, fertile spikelets pedicelled, 3.4–4.8 mm long



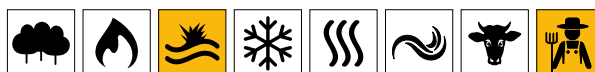
Tropics, 300–1,700 m



Green fodder



Common



MV



DFLN22



FMN23



FMN23

## *Leersia perrieri* (A.Camus) Launert

Tsy Fantatra



Velona isan-taona, taho mihilana



Raviny 3–6 sm × 2.5–5 mm



Sampana 2–5 sm



Akotry mitsitokatokana, 3.5–4 mm



Madagasikara sy Mayotte, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Ramiandrisoa *et al.* 2021



Annual, ascendent



Leaf blades 3–6 cm long × 2.5–5 mm wide



Panicle 2-5 cm long



Spikelets single, 3.5–4 mm long



Madagascar and Mayotte, 0–500 m



None recorded



Information in Ramiandrisoa *et al.* 2021



RB



RB



RB



# *Leptaspis zeylanica* Nees ex Steud.

Tsingolovolo

|                                                                                   |                                                                           |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|   | Velona mandavantaona, rizoma lava, taho mihilana                          |   | Perennial, rhizomes elongated, culms ascending             |
|   | Raviny 10–30 × 2.5–6.0 sm, malama                                         |   | Leaf blades 10–30 × 2.5–6.0 cm, glabrous                   |
|   | Sampana mivelatra, 10–45 sm                                               |   | Panicle open, 10–45 cm long                                |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–6 mm |   | Spikelets in pairs, fertile spikelets sessile, 4–6 mm long |
|   | Tropika, 100–1500 m                                                       |   | Tropics, 100–1,500 m                                       |
|   | Tsy misy voarakitra                                                       |   | None recorded                                              |
|  | Tsy misy fanamarihana                                                     |  | No notes                                                   |



MV



MV



MV



MV

## *Leptocarydion vulpiastrum* (De Not.) Stapf

Ahipotsy, Akatamoka, Moka, Volotsiriry



Mitsiry isan-taona, mamondrona



Raviny 2–12 × 0.6–2 sm, malama



Rantsana maro mitsiry manaraka ny tahony, 0.5–4 sm



Akotry mitsitokatokana, izay mamoa dia misy na tsy misy taho, mirefy 5–11 mm



Afrika, Madagasikara, 0–500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, caespitose



Leaf blades 2–12 × 0.6–2 cm, glabrous



Racemes numerous, borne along a central axis, 0.5–4 cm long



Spikelets solitary, fertile spikelets pedicelled or sessile, 5–11 mm long



Africa, Madagascar, 0–500 m



None recorded



No notes



MV



MV



ER



## *Lepturus anadabolavensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, mijoro mahitsy



Raviny 6–8 × 0.30–0.40 sm, malama



Tokan-drantsana, 2.5–3 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 2.2–2.4 mm



Madagasikara, 0–200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms erect



Leaf blades 6–8 × 0.30–0.40 cm, glabrous



Racemes 1, 2.5–3 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 2.2–2.4 mm long



Madagascar, 0–200 m



None recorded



In need of further study



MV

MV

MV

## *Lepturus humbertianus* A.Camus

Mokanaomby, Tsilavonomby



Velona mandavantaona, mamondrona, misy ladina, taho mijoro mahitsy na mihilana



Raviny 6–15 × 0.3–0.6 sm, malama



Tokan-drantsana, 4–6 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 3.5–5.5 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, stolons present, culms erect or ascending



Leaf blades 6–15 × 0.3–0.6 cm, glabrous



Racemes 1, 4–6 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 3.5–5.5 mm long



Madagascar, 0–500 m



None recorded



In need of further study



MV



MV



MV



MV



MV



## *Lepturus radicans* (Steud.) A.Camus

Tsy Fantatra



Velona mandavantaona, misy ladina, taho mijoro mahitsy na mihilana



Raviny 2–12.5 × 0.40–0.80 sm, malama



Tokan-drantsana, 2–6.5 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 3–5 mm



Tropika, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, stolons present, culms erect or ascending



Leaf blades 2–12.5 × 0.40–0.80 cm, glabrous



Racemes 1, 2–6.5 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 3–5 mm long



Tropics, 0–500 m



None recorded



In need of further study



FR



FR



FR



FR



FR

*Lepturus repens* (G.Forst.) R.Br.

Tsy Fantatra



Velona mandavantaona, misy ladina, taho mijoro mahitsy na mihilana



Raviny 5–15 × 0.20–1 sm, malama



Tokan-drantsana, 4–20 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 10–14 mm



Tropika, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, stolons present, culms erect or ascending



Leaf blades 5–15 × 0.20–1 cm, glabrous



Racemes 1, 4–20 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 10–14 mm long



Tropics, 0–500 m



None recorded



In need of further study



FR



FR



FR



FR



# *Lolium multiflorum* Lam.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mitolefika



Annual, caespitose, culms erect or decumbent



Raviny 6–25 × 0.40–1 sm, malama



Leaf blades 6–25 × 0.40–1 cm, glabrous



Tokan-drantsana, 10–30 sm



Racemes 1, 10–30 cm long



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy



Spikelets solitary, fertile spikelets sessile



Tropika, 1000–2000 m



Tropics, 1,000–2,000 m



Vilona



Forage



Mila fandalinana fanampiny



In need of further study



FR



FR



FR



FR

## *Loudetia filifolia* Schweick.

Korovola



Velona mandavantaona, mamondrona, mijoro mahitsy, marotsaka



Raviny 5–10 × 0.10–0.20 sm, voloina



Sampana mikombona, 2.5–10 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6–7 mm



Afrika, Madagasikara, 0–1000 m



Rary sy asa-tànana



Tsy misy fanamarihana



Perennial, caespitose, culms erect, slender



Leaf blades 5–10 × 0.10–0.20 cm, puberulous



Panicle contracted, 2.5–10 cm long



Spikelets solitary, fertile spikelets pedicelled, 6–7 mm long



Africa, Madagascar, 0–1,000 m



Basketry



No notes



MV



DFLN22



MV



MV



## *Loudetia simplex* (Nees) C.E.Hubb.

Akatavero, Berambo, Hara, Harabo, Harambo, Haravolo, Haravolovary, Horona, Kilailay, Kirodrotra, Menarirana, Raboka



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 10–30 × 0.20–0.50 sm, malama



Sampana mivelatra na mikombona, 10–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 8–13 mm



Afrika, Madagasikara, 0–2200 m



Fakany manasitrana fery, mitsabo fivalanan-drà



Mahazatra, voarakitra ao amin'ny Almary *et al.*; Tiley *et al.* 2023



Perennial, caespitose, culms erect



Leaf blades 10–30 × 0.20–0.50 cm, glabrous



Panicle open or contracted, 10–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 8–13 mm long



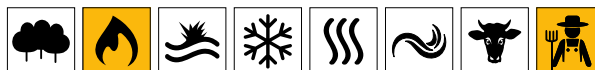
Africa, Madagascar, 0–2,200 m



Roots heal superficial wounds, treats bloody stools



Common, Information in Almary *et al.* In press; Tiley *et al.* 2023



FMN23



FMN23



DFLN22



FMN23

# *Maltebrunia leersioides* Kunth

Tsy Fantatra



Velona mandavantaona, rizoma lava



Raviny 10–19 × 1.0–3.5 sm, malama



Sampana mivelatra, 15–21 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4.5 mm



Madagasikara, 0–800 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, rhizomes elongated



Leaf blades 10–19 × 1.0–3.5 cm, glabrous



Panicle open, 15–21 cm long



Spikelets solitary, fertile spikelets pedicelled, 4.5 mm long



Madagascar, 0–800 m



None recorded



In need of further study



MV



MV



MV



MV



## *Megastachya mucronata* (Poir.) P.Beauv.

Ahipisaka, Lavarefy



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mitolefika



Annual, caespitose, culms erect or decumbent



Raviny 10–15 × 1.0–2 sm, voloina



Leaf blades 10–15 × 1.0–2 cm, pubescent



Sampana mivelatra, 15–20 sm



Panicle open, 15–20 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 7–14 mm



Spikelets solitary, fertile spikelets pedicelled, 7–14 mm long



Afrika, Madagasikara, 0–1400 m



Africa, Madagascar, 0–1,400 m



Raokandro



Medicinal uses



Mila fandalinana fanampiny



In need of further study



DR



DR



DR



DR

## *Melinis minutiflora* P.Beauv.

Ahikongona, Ahipody, Ahitsiriry, Ahitsolika, Menapaka, Menakapaha, Sandrahiriky, Tamenakapaha



Velona mandavantaona, taho mihilana



Raviny 5–20 × 0.30–1.1 sm, mamofona, voloina



Sampana mivelatra, 10–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2 mm



Afrika, Madagasikara, 1200–2000 m



Manasitrana kohaka, mandrefy ny tahan'ny albiminina



Mahazatra



Perennial, culms ascending



Leaf blades 5–20 × 0.30–1.1 cm, pilose, aromatic



Panicle open, 10–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–2 mm long



Africa, Madagascar, 1,200–2,000 m



Cough suppressant, a part of a preparation to balance hypoalbuminemia or hyperalbuminemia



Common



DR



FR



FR



FR



## *Melinis repens* (Willd.) Zizka

Ahikongona, Ahipody, Ahipoly, Akatafotsy, Belohaliky, Saboranosy, Sandrahiriky, Volonaondry



Mitsiry isan-taona na velona taona vitsivitsy, mamondrona, taho mijoro mahitsy na mihilana



Raviny 5–30 × 0.20–1 sm, malama



Sampana mivelatra, 5–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–12 mm



Afrika, Madagasikara, 0–1800 m



Vilo-maina



Mahazatra



Annual or perennial, short-lived, caespitose, culms erect or ascending



Leaf blades 5–30 × 0.20–1 cm, glabrous



Panicle open, 5–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–12 mm long



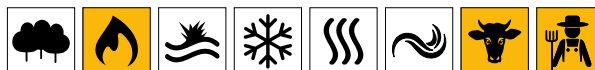
Africa, Madagascar, 0–1,800 m



Hay



Common



DR



DR



FR



FR

# *Merxmuellera ambalavaoensis* (A.Camus) Conert

Fatakamanga



Velona mandavantaona



Raviny 15–50 × 0.20–10 cm, malama



Sampana mikombona, 25–35 cm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 17–18 mm



Madagasikara, 1500–2600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial



Leaf blades 15–50 × 0.20–10 cm, glabrous



Panicle contracted, 25–35 cm long



Spikelets solitary, fertile spikelets pedicelled, 17–18 mm long



Madagascar, 1,500–2,600 m



None recorded



In need of further study



MV



MV



MV



MV



# *Microchloa kunthii* Desv.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 1–8 × 0.03–0.17 sm, malama



Tokan-drantsana, 2–25 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.5–4 mm



Tropika, 1000–2200 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 1–8 × 0.03–0.17 cm, glabrous



Racemes 1, 2–25 cm long



Spikelets solitary, fertile spikelets sessile, 2.5–4 mm long



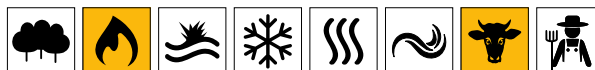
Tropics, 1,000–2,200 m



None recorded



No notes



MV



MV



MV

## *Microlaena stipoides* (Labill.) R.Br.

Tsy Fantatra



Velona mandavantaona, rizoma fohy, taho mihilana na mitolefika



Raviny 2.5–25 × 0.10–0.50 sm, malama



Sampana mivelatra, 7–17 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 8–14 mm



Tropika, 1000–2000 m



Tsy misy voarakitra



Ahidratsy tafiditra tao Andringitra; voarakitra ao amin'ny Vorontsova *et al.* 2014



Perennial, rhizomes short, culms ascending or decumbent



Leaf blades 2.5–25 × 0.10–0.50 cm, glabrous



Panicle open, 7–17 cm long



Spikelets solitary, fertile spikelets pedicelled, 8–14 mm long



Tropics, 1,000–2,000 m



None recorded



Weed introduced to Andringitra; Information in Vorontsova *et al.* 2014



FR



FR



FR



FR



## *Microstegium nudum* (Trin.) A.Camus

Tsy Fantatra



Mitsiry isan-taona, mandrafitra tsihy, taho mivoivoy



Raviny 1–8 × 0.20–1.3 sm, malama



Rantsana 2–10, misamaka, 2–8 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–5 mm



Tropika, 600–1700 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, mat forming, culms rambling



Leaf blades 1–8 × 0.20–1.3 cm, glabrous



Racemes 2–10, digitate, 2–8 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–5 mm long



Tropics, 600–1,700 m



None recorded



No notes



MV



MV



MV



MV

## *Moorochloa eruciformis* (Sm.) Veldkamp

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mitolefika, marotsaka



Raviny 2–15 × 0.20–0.60 sm, malama na voloina



Rantsana 3–14, mitsiry manaraka ny tahony, 0.5–2.5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 1.7–2.7 mm



Tropika, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, caespitose, culms decumbent, slender



Leaf blades 2–15 × 0.20–0.60 cm, glabrous or pubescent



Racemes 3–14, borne along a central axis, 0.5–2.5 cm long



Spikelets solitary, fertile spikelets sessile, 1.7–2.7 mm long



Tropics, 0–500 m



None recorded



Information in Vorontsova 2022



MV



MV



MV



MV



## *Neostapfiella perrieri* A.Camus

Tsy Fantatra



Mitsiry isan-taona, misy ladina



Raviny 1.2–4.5 × 0.30–0.40 sm, malama



Rantsana 2–4, misamaka, 3–7 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4.5–5.5 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova & Rakotoarisoa 2014



Annual, stolons present



Leaf blades 1.2–4.5 × 0.30–0.40 cm, glabrous



Racemes 2–4, digitate, 3–7 cm long



Spikelets solitary, fertile spikelets sessile, 4.5–5.5 mm long



Madagascar, 0–500 m



None recorded



Information in Vorontsova & Rakotoarisoa 2014



ER



ER



ER



ER

## *Neyraudia arundinacea* (L.) Henrard

Andrasika, Andrasiko, Antsanjy, Antseho, Fantaka, Fantakabe, Fatakana, Fatakandahy, Kitrana



Velona mandavantaona, rizoma fohy, mijoro mahitsy



Raviny 30–60 × 0.5–1 sm, maraorao



Sampana mivelatra, 30–80 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 6–9 mm



Tropika, 700–1700 m



Haingon-trano, raviny fatao odikankan'omby, mitsabo ny kasoa, rary sy asa-tànana



Mahazatra



Perennial, rhizomes short, culms erect



Leaf blades 30–60 × 0.5–1 cm, scabrous



Panicle open, 30–80 cm long



Spikelets solitary, fertile spikelets pedicelled, 6–9 mm long



Tropics, 700–1,700 m



Ornamental plant, leaves used for deworming, decoction treats erotic madness, basketry



Common



MV



DR



DR



DR



## *Oplismenus baronii* A.Camus

Tsy Fantatra



Mitsiry isan-taona, taho matory



Raviny 1–9 × 0.5–2 sm, malama na voloina



Rantsana 3–8, mitsiry manaraka ny tahony, 0.5–2.5 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–3.5 mm



Madagasikara, 0–1500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms prostrate



Leaf blades 1–9 × 0.5–2 cm, glabrous to hirsute



Racemes 3–8, borne along a central axis, 0.5–2.5 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–3.5 mm long



Madagascar, 0–1,500 m



None recorded



In need of further study



MV



MV



MV

# *Oplismenus burmanni* (Retz.) P.Beauv.

Tsy Fantatra



Mitsiry isan-taona, taho matory



Raviny 1–9 × 0.5–2 sm, malama na voloina



Rantsana 3–8, mitsiry manaraka ny tahony, 0.5–2.5 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–3.5 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Mahazatra



Annual, culms prostrate



Leaf blades 1–9 × 0.5–2 cm, glabrous to hirsute



Racemes 3–8, borne along a central axis, 0.5–2.5 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–3.5 mm long



Tropics, 0–1,500 m



None recorded



Common



DR



MV



DR



DR



# *Oplismenus compositus* (L.) P.Beauv.

Tsy Fantatra



Velona mandavantaona, mandady, taho matory



Raviny 2–16 × 0.80–3.5 sm, malama



Rantsana 4–12, mitsiry manaraka ny tahony, 2.5–11 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–4 mm



Tropika, 0–1600 m



Tsy misy voarakitra



Mahazatra



Perennial, culms prostrate



Leaf blades 2–16 × 0.80–3.5 cm, glabrous



Racemes 4–12, borne along a central axis, 2.5–11 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–4 mm long



Tropics, 0–1,600 m



None recorded



Common



FR



DR



FMN23



FR

# *Oplismenus flavicomus* Mez

Tsy Fantatra



Mitsiry isan-taona, mandady, taho matory



Raviny 8–12 × 0.70–2 sm, voloina



Rantsana 6–9, mitsiry manaraka ny tahony, 1–2 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 4–6 mm



Madagasikara, 600–1600 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms prostrate



Leaf blades 8–12 × 0.70–2 cm, pilose



Racemes 6–9, borne along a central axis, 1–2 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 4–6 mm long



Madagascar, 600–1,600 m



None recorded



In need of further study



MV



DR



DR



MV



## *Oplismenus hirtellus* (L.) P.Beauv.

Tsy Fantatra



Velona mandavantaona, mandady, taho matory



Raviny 1–13 × 0.40–2 sm, malama



Rantsana 3–9, mitsiry manaraka ny tahony, 0.5–3 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2–4 mm



Tropika, 0–2200 m



Tsy misy voarakitra



Mahazatra



Perennial, culms prostrate



Leaf blades 1–13 × 0.40–2 cm, glabrous



Racemes 3–9, borne along a central axis, 0.5–3 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2–4 mm long



Tropics, 0–2,200 m



None recorded



Common



MV



FR



DFLN22



DFLN22

## *Oryza longistaminata* A.Chev. & Roehr.

Behatoka, Jama, Tsingarivary, Tsiririvary, Varijao, Varinangatra, Varinandriananahary, Vary andrianahary



Velona mandavantaona, rizoma lava, taho mihilana na mitolefika



Raviny 10–75 × 0.50–2.5 sm, maraorao



Sampana mivelatra, 16–40 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 7–12 mm



Afrika, Madagasikara, 0–1500 m



Tsy misy voarakitra



Hita ao Antananarivo



Perennial, rhizomes elongated, culms ascending or decumbent



Leaf blades 10–75 × 0.50–2.5 cm, scaberulous



Panicle open, 16–40 cm long



Spikelets solitary, fertile spikelets pedicelled, 7–12 mm long



Africa, Madagascar, 0–1,500 m



None recorded



In Antananarivo



RG



RG



RG



RG



# *Oryza sativa* L.

Rojo, Tsipala, Vary



Mitsiry isan-taona, taho mijoro mahitsy na mihilana



Raviny 12–65 × 0.40–1.8 sm, malama na voloina



Sampana mivelatra, 20–50 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 8–11 mm



Tropika, 0–1800 m



Foton-tsakafon'ny Malagasy, haingon-trano, vilomaina, sesikidoro



Mahazatra



Annual, culms erect or ascending



Leaf blades 12–65 × 0.40–1.8 cm, glabrous or pubescent



Panicle open, 20–50 cm long



Spikelets solitary, fertile spikelets pedicelled, 8–11 mm long



Tropics, 0–1,800 m



Malagasy basic food, ornamental plant, fodder, mattress padding



Common



MV



MV



RB



MV

# *Oxyrhachis gracillima* (Baker) C.E.Hubb.

Ahitsorohitra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 5–30 × 0.10–0.20 sm, malama



Tokan-drantsana, 5–16 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 3–6 mm



Afrika, Madagasikara, 0–2000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 5–30 × 0.10–0.20 cm, glabrous



Racemes 1, 5–16 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 3–6 mm long



Africa, Madagascar, 0–2,000 m



None recorded



In need of further study



MV



MV



MV



MV



# *Panicum ambositrense* A.Camus

Tsy Fantatra

|                                                                                   |                                                                             |                                                                                    |                                                                 |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|   | Velona mandavantaona, taho mitolefika na mivoivoy                           |   | Perennial, culms decumbent or rambling                          |
|   | Raviny 5–13 × 0.30–1 sm, malama na voloina                                  |   | Leaf blades 5–13 × 0.30–1 cm, glabrous or pubescent             |
|   | Sampana mivelatra, 10–25 sm                                                 |   | Panicle open, 10–25 cm long                                     |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–2.5 mm |   | Spikelets solitary, fertile spikelets pedicelled, 2–2.5 mm long |
|   | Madagasikara, >1000 m                                                       |   | Madagascar, >1,000 m                                            |
|   | Tsy misy voarakitra                                                         |   | None recorded                                                   |
|  | Voarakitra ao amin'ny Vorontsova 2018                                       |  | Information in Vorontsova 2018                                  |



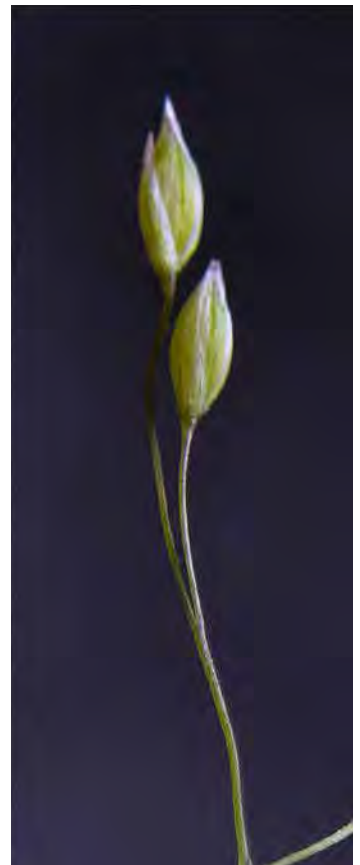
FMN23



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## *Panicum andringitrense* A.Camus

Tsy Fantatra



Velona mandavantaona, taho mivoivoy



Raviny 3–5 × 0.30–0.50 sm, malama



Sampana mivelatra, 4–5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5 mm



Madagasikara, 1000–2500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, culms rambling



Leaf blades 3–5 × 0.30–0.50 cm, glabrous



Panicle open, 4–5 cm long



Spikelets solitary, fertile spikelets pedicelle, 2.5 mm long



Madagascar, 1,000–2,500 m



None recorded



Information in Vorontsova 2018



MV



MV



## *Panicum brevifolium* L.

Ahipisaka, Ahipody, Angalimpody



Mitsiry isan-taona, taho mivoivoy



Raviny 5–10 × 1.0–2.5 sm, malama na voloina



Sampana mivelatra, 5–16 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–1.8 mm



Tropika, 700–2400 m



Vilon'omby



Mahazatra; voarakitra ao amin'ny Vorontsova 2018



Annual, culms rambling



Leaf blades 5–10 × 1.0–2.5 cm, glabrous or pilose



Panicle open, 5–16 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–1.8 mm long



Tropics, 700–2,400 m



Zebu Forage



Common; Information in Vorontsova 2018



FR



FR



DR



FR

*Panicum cinctum* Hack.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 3–8 × 0.30–0.40 sm, voloina



Sampana mivelatra, 2–4 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2 mm



Madagasikara, 0–1500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, caespitose, culms erect



Leaf blades 3–8 × 0.30–0.40 cm, pilose



Panicle open, 2–4 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–2 mm long



Madagascar, 0–1,500 m



None recorded



Information in Vorontsova 2018



FMN23



FMN23



FMN23



FMN23



## *Panicum cupressifolium* A.Camus

Ahibaritra



Velona mandavantaona, taho sy ny sampan-taho mafifamafy toy ny hazo



Raviny 0.05–0.15 × 0.01–0.02 sm, malama



Akotry vitsivitsy



Akotry mitsitokatokana, mirefy 1.8–2 mm



Madagasikara, 2000–2600 m



Tsy misy voarakitra



Tsy hita afa-tsy ao Andringitra; voarakitra ao amin'ny Vorontsova 2018



Perennial, branching, culms woody



Leaf blades 0.05–0.15 × 0.01–0.02 cm, glabrous



Only few spikelets



Spikelets solitary, fertile spikelets 1.8–2 mm long



Madagascar, 2,000–2,600 m



None recorded



Endemic to Andringitra area; Information in Vorontsova 2018



MV



MV



MV



*Panicum ibitense* A.Camus

Tsy Fantatra



Velona mandavantaona, mijoro mahitsy na somary mitolefika



Raviny 7–10 × 0.5–0.6 sm, malama



Sampana mivelatra, 8–16 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2 mm



Madagasikara, 250–2200 m



Tsy misy voarakitra



Hita anaty ala tapia; voarakitra ao amin'ny Vorontsova 2022



Perennial, culms erect to scrambling



Leaf blades 7–10 × 0.5–0.6 cm, glabrous



Panicle open, 8–16 cm long



Spikelets solitary, fertile spikelets pedicelled, 2 mm long



Madagascar, 250–2,200 m



None recorded



In tapia; Information in Vorontsova 2018



MV



MV



DR



DR



*Panicum luridum* Hack.

Tsirimena, Vilindrano



Velona mandavantaona, taho mihilana na mitolefika



Raviny 3–6 × 0.30–0.50 sm, voloina



Sampana mivelatra, 3–5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2 mm



Madagasikara, 0–1600 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, culms ascending or decumbent



Leaf blades 3–6 × 0.30–0.50 cm, pilose



Panicle open, 3–5 cm long



Spikelets solitary, fertile spikelets pedicelled, 2 mm long



Madagascar, 0–1,600 m



None recorded



Information in Vorontsova 2018



FE



MV



ER



ER

# *Panicum malacotrichum* Steud.

Tsy Fantatra



Velona mandavantaona, taho henjana



Raviny 10–20 × 1.0–2.5 sm, malama na voloina



Sampana mivelatra, 15–25 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy



Madagasikara, 500–1800 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, culms robust



Leaf blades 10–20 × 1.0–2.5 cm, glabrous or puberulous



Panicle open, 15–25 cm long



Spikelets solitary, fertile spikelets pedicelled



Madagascar, 500–1,800 m



None recorded



Information in Vorontsova 2018



MV



DR



DR



DR



## *Panicum mitopus* K.Schum.

Voloritro



Mitsiry isan-taona na velona taona vitsivitsy, taho mivoivoy



Raviny 3–7 × 0.50–1 sm, malama na voloina



Sampana mivelatra, 10–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.3 mm



Afrika, Madagasikara, 300–2200 m



Tsy misy voarakitra



Mahazatra; voarakitra ao amin'ny Vorontsova 2018



Annual or perennial, short-lived, culms rambling



Leaf blades 3–7 × 0.50–1 cm, glabrous or pilose



Panicle open, 10–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.3 mm long



Africa, Madagascar, 300–2,200 m



None recorded



Common; Information in Vorontsova 2018



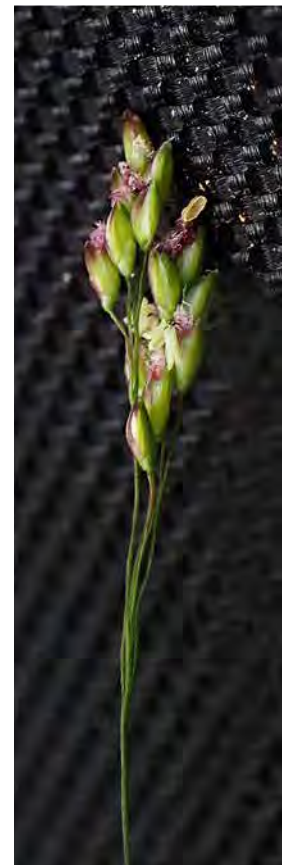
MV



MV



FMN23



FMN23

# *Panicum perrieri* A.Camus

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 2–4 × 0.20–0.30 sm, malama na voloina



Sampana mivelatra, 1–3 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3 mm



Madagasikara, 800–2500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, culms decumbent



Leaf blades 2–4 × 0.20–0.30 cm, glabrous or pilose



Panicle open, 1–3 cm long



Spikelets solitary, fertile spikelets pedicelled, 3 mm long



Madagascar, 800–2,500 m



None recorded



Information in Vorontsova 2018



DFLN22



MV



DFLN22



MV



MV



*Panicum spergulifolium* A.Camus

Tsy Fantatra

|                                                                                    |                                                                                                   |                                                                                     |                                                                   |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------|
|    | Velona mandavantaona, misy ladina, taho mijoro mahitsy                                            |    | Perennial, stolons present, culms erect                           |
|    | Raviny 1–3 × 0.15–0.20 sm, malama na voloina                                                      |    | Leaf blades 1–3 × 0.15–0.20 cm, glabrous or pilose                |
|    | Sampana mivelatra, 3–6 sm                                                                         |    | Panicle open, 3–6 cm long                                         |
|    | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3.5–3.8 mm                     |    | Spikelets solitary, fertile spikelets pedicelled, 3.5–3.8 mm long |
|    | Madagasikara, 1700–2600 m                                                                         |    | Madagascar, 1,700–2,600 m                                         |
|    | Tsy misy voarakitra                                                                               |    | None recorded                                                     |
|  | Tsy hita afa tsy amin'ny faritra manodidina an'Andringitra; voarakitra ao amin'ny Vorontsova 2018 |  | Endemic to Andringitra area; Information in Vorontsova 2018       |



MV



DFLN22



MV



MV



## *Panicum subalbidum* Kunth

Ahipisaka, Famoà, Fantaka, Karangy mena



Mitsiry isan-taona na velona taona vitsivitsy, taho mijoro mahitsy na mitolefika



Raviny 20–50 × 0.70–1.5 sm, malama na voloina



Sampana mivelatra, 20–50 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–3.5 mm



Afrika, Madagasikara, 0–1600 m



Vilona



Voarakitra ao amin'ny Vorontsova 2018



Annual or perennial, short-lived, culms erect or decumbent



Leaf blades 20–50 × 0.70–1.5 cm, glabrous or pilose



Panicle open, 20–50 cm long



Spikelets solitary, fertile spikelets pedicelled, 3–3.5 mm long



Africa, Madagascar, 0–1,600 m



Forage



Information in Vorontsova 2018



DFLN22



DFLN22



DFLN22



MV



## *Panicum subhystrix* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mijoro mahitsy



Raviny 2–5 × 0.10–0.30 sm, voloina



Sampana mivelatra, 1–2.5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5 mm



Madagasikara, 900–2300 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Annual, culms erect



Leaf blades 2–5 × 0.10–0.30 cm, pilose



Panicle open, 1–2.5 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5 mm long



Madagascar, 900–2,300 m



None recorded



Information in Vorontsova 2018



MV



MV



MV

## *Panicum voeltzkowii* Mez

Ahipody, Ahitoto



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 3–9 × 0.20–0.50 sm, malama na voloina



Sampana mivelatra, 2.5–6 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.3–1.7 mm



Nosy Mascareignes, Madagasikara, 0–200 m



Tsy misy voarakitra



Mahazatra; voarakitra ao amin'ny Vorontsova 2018



Perennial, caespitose, stolons absent, culms erect



Leaf blades 3–9 × 0.20–0.50 cm, glabrous or pubescent



Panicle open, 2.5–6 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.3–1.7 mm long



Mascarene Islands, Madagascar, 0–200 m



None recorded



Common; Information in Vorontsova 2018



ER



ER



ER



ER



# *Panicum vohitrense* A.Camus

Tsy Fantatra



Mitsiry isan-taona, taho mihilana



Raviny 2.5–4.5 × 0.80–1 sm, malama



Sampana mivelatra, 5–8 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.6–1.8 mm



Madagasikara, 300–1800 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Annual, culms ascending



Leaf blades 2.5–4.5 × 0.80–1 cm, glabrous



Panicle open, 5–8 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.6–1.8 mm long



Madagascar, 300–1,800 m



None recorded



Information in Vorontsova 2018



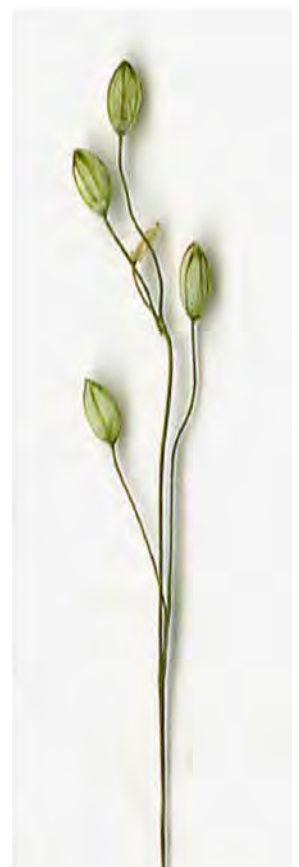
MV



MV



MV



MV

## *Paratheria prostrata* Griseb.

Tsy Fantatra



Velona mandavantaona, mandady, taho matory



Raviny 2–7 × 0.20–0.40 sm, malama na voloina



Rantsana 8–15 ×, 3–5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 15–20 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms prostrate



Leaf blades 2–7 × 0.20–0.40 cm, glabrous or pubescent



Racemes 8–15, 3–5 cm long



Spikelets solitary, fertile spikelets sessile, 15–20 mm long



Tropics, 0–1,500 m



None recorded



In need of further study



MV



MV



MV



## *Paspalum conjugatum* P.J.Bergius

Ahipisaka, Ahipisakalahy



Velona mandavantaona, misy ladina



Raviny 4–20 × 0.50–1.3 sm, malama



Rantsana miaraka tsiroaroa, 5–17 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 1.5–1.7 mm



Tropika, 0–1500 m



Vilona



Tsy misy voarakitra



Perennial, stolons present



Leaf blades 4–20 × 0.50–1.3 cm, glabrous



Racemes paired, 5–17 cm long



Spikelets solitary, fertile spikelets sessile, 1.5–1.7 mm long



Tropics, 0–1,500 m



Forage



No notes



DR



FR



DR



FR

*Paspalum dilatatum* Poir.

Ahitsoavaly



Velona mandavantaona, mamondrona



Raviny 6–45 × 0.30–1.2 sm, malama



Rantsana 3–5, mitsiry manaraka ny tahony, 4–11 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.8–3.8 mm



Tropika, 0–1700 m



Vilona, tombokahitra



Tsy misy fanamarihana



Perennial, caespitose



Leaf blades 6–45 × 0.30–1.2 cm, glabrous



Racemes 3–5, borne along a central axis, 4–11 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.8–3.8 mm long



Tropics, 0–1,700 m



Forage, lawn



No notes



FR



FR



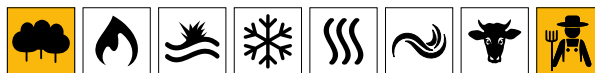
FR



# *Paspalum nutans* Lam.

Pikombalala

|                                                                                   |                                                                               |                                                                                    |                                                                 |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona, taho mihilana na mitolefika                 |   | Perennial, caespitose, culms ascending or decumbent             |
|   | Raviny 3–16 × 0.50–1.5 sm, malama na voloina                                  |   | Leaf blades 3–16 × 0.50–1.5 cm, glabrous or pilose              |
|   | Rantsana 1(–4), 2–6 sm                                                        |   | Racemes 1(–4), 2–6 cm long                                      |
|   | Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 1.8–2 mm |   | Spikelets in pairs, fertile spikelets pedicelled, 1.8–2 mm long |
|   | Tropika, 0–1000 m                                                             |   | Tropics, 0–1,000 m                                              |
|   | Tsy misy voarakitra                                                           |   | None recorded                                                   |
|  | Tsy misy fanamarihana                                                         |  | No notes                                                        |



FR



FR



FR



FR

## *Paspalum paniculatum* L.

Ahitsoavaly, Mahabanky, Ramilihy, Ramily



Velona mandavantaona, mamondrona, taho mijoro



Raviny 9–50 × 0.60–2.5 sm, malama na voloina



Rantsana 7–60, mitsiry manaraka ny tahony, 4–12 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 1.3–1.4 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 9–50 × 0.60–2.5 cm, glabrous to pilose



Racemes 7–60, borne along a central axis, 4–12 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 1.3–1.4 mm long



Tropics, 0–1,500 m



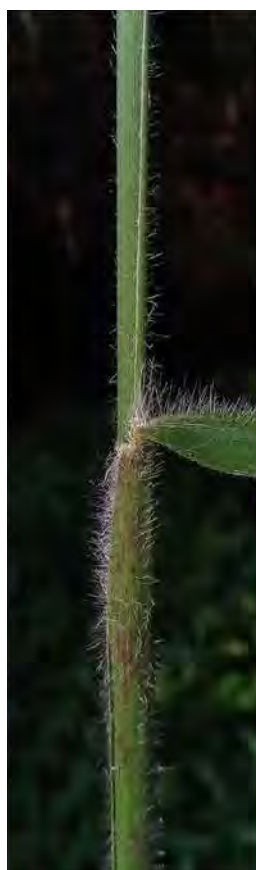
None recorded



No notes



FR



DR



DR



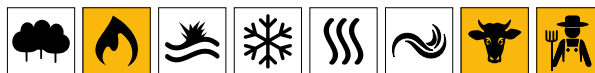
FR



## *Paspalum scrobiculatum* L.

Ahivivy, Fotsivody, Menavavy, Tsipipina

|                                                                                   |                                                                                        |                                                                                    |                                                                    |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|   | Velona mandavantaona, mamondrona na mandrafitra tsihy, taho mijoro mahitsy na mihilana |   | Perennial, mat forming or caespitose, culms erect or ascending     |
|   | Raviny 5–40 × 0.30–1.5 sm, malama na voloina                                           |   | Leaf blades 5–40 × 0.30–1.5 cm, glabrous to pilose                 |
|   | Rantsana 1–20, misamaka na mitsiry manaraka ny tahony, 2–15 sm                         |   | Racemes 1–20, digitate or borne along a central axis, 2–15 cm long |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.4–3 mm            |   | Spikelets solitary, fertile spikelets pedicelled, 1.4–3 mm long    |
|   | Tropika, 0–1700 m                                                                      |   | Tropics, 0–1,700 m                                                 |
|   | Tsy misy voarakitra                                                                    |   | None recorded                                                      |
|  | Mahazatra                                                                              |  | Common                                                             |



FR



FR



FR



FR

# *Paspalum urvillei* Steud.

Tsy Fantatra



Velona mandavantaona, mamondrona



Raviny 20–30 × 0.6–1.2 sm, malama



Rantsana 10–20, mitsiry manaraka ny tahony, 4–13 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2–2.8 mm



Tropika, 0–1800 m



Vilona, tombokahitra



Mila fandalinana fanampiny



Perennial, caespitose



Leaf blades 20–30 × 0.6–1.2 cm, glabrous



Racemes 10–20, borne along a central axis, 4–13 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2–2.8 mm long



Tropics, 0–1,800 m



Forage, lawn



In need of further study



FR



FR



FR



FR



## *Paspalum vaginatum* Sw.

Arema an-tanimbary, Fandroalakana, Fandrotrarana vazaha, Kidoronalika an-tanimbary, Tsingirifitra



Velona mandavantaona, mandrafitra tsihy, misy ladina, taho mitolefika na mivoivoy



Perennial, mat forming, stolons present, culms decumbent



Raviny 2.5–15 × 0.30–0.80 sm, malama



Leaf blades 2.5–15 × 0.30–0.80 cm, glabrous



Rantsana 2(–5), miaraka tsiroaroa, misamaka na tsia, 1.5–7.5 mm



Racemes 2(–5), paired or digitate, 1.5–7.5 cm long



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3–4.5 mm



Spikelets solitary, fertile spikelets sessile, 3–4.5 mm long



Tropika, 0–300 m



Tropics, 0–300 m



Fandrika fanjonoana, totoina miaraka amin'ny sira hanasitrana ratra madinika



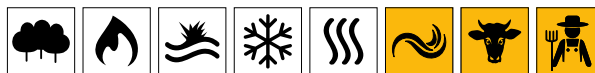
Fishing bait, crushed plant with salt heals wounds



Tsy misy fanamarihana



No notes



FR



FR



FR



FR

# *Pentameris andringitrensis* (A.Camus) Galley & H.P.Linder

Tsy Fantatra



Velona mandavantaona, mamondrona



Raviny 7–8 × 0.25–0.30 sm, malama



Sampana mivelatra, 10–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 8 mm



Madagasikara, 1500–2500 m



Tsy misy voarakitra



Tsy hita afa tsy amin'ny faritra manodidina an'Andringitra



Perennial, caespitose



Leaf blades 7–8 × 0.25–0.30 cm, glabrous



Panicle open, 10–15 cm long



Spikelets solitary, fertile spikelets pedicelled, 8 mm long



Madagascar, 1,500–2,500 m



None recorded



Endemic to Andringitra area



MV



MV



MV



# *Perotis arenacea* (Judz.) P.M.Peterson

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 0.8–4 × 0.20–0.60 sm, malama



Tokan-drantsana, 4–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.3–1.8 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, caespitose, culms ascending



Leaf blades 0.8–4 × 0.20–0.60 cm, glabrous



Racemes single, 4–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.3–1.8 mm long



Madagascar, 0–500 m



None recorded



No notes



MV



MV



MV



*Perotis patens* Gand.

Borosoy, Haitsy



Mitsiry isan-taona na velona taona vitsivitsy, mamondrona, taho mihilana



Raviny 1–7 × 0.30–1.2 sm, malama



Tokan-drantsana, 5–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.2–2.7 mm



Afrika, Madagasikara, 0–1500 m



Vilona



Mahazatra



Annual or perennial, short-lived, caespitose, culms ascending



Leaf blades 1–7 × 0.30–1.2 cm, glabrous



Racemes single, 5–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.2–2.7 mm long



Africa, Madagascar, 0–1,500 m



Forage



Common



DR



DR



DR



NR



# *Phragmites mauritianus* Kunth

Bararata, Katsaka, Katsaoka, Volotara



Velona mandavantaona, rizoma lava, mijoro mahitsy



Raviny 25–75 × 0.60–4.0 sm, maraorao



Sampana mivelatra, 30–50 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 7–16 mm



Tropika, 0–2000 m



Fanaovana fefy, rary sy asa-tànana, harato ary zavamaneno



Mahazatra



Perennial, rhizomes elongated, culms erect



Leaf blades 25–75 × 0.60–4.0 cm, scaberulous



Panicle open, 30–50 cm long



Spikelets solitary, fertile spikelets pedicelled, 7–16 mm long



Tropics, 0–2,000 m



Fencing, basketry, fish nets and musical instruments



Common



MV



MV



MV



MV

*Poa ankaratrensis* A.Camus & H.Perrier

Tsy Fantatra



Mitsiry isan-taona, taho mitolefika



Raviny 7–10 × 0.10–0.15 sm, malama



Sampana mivelatra, 8 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5 mm



Madagasikara, 1500–2000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms decumbent



Leaf blades 7–10 × 0.10–0.15 cm, glabrous



Panicle open, 8 cm long



Spikelets solitary, fertile spikelets pedicelled, 5 mm long



Madagascar, 1,500–2,000 m



None recorded



No notes



DFLN22



DFLN22



## *Poa annua* L.

Tsy Fantatra



Mitsiry isan-taona na velona taona vitsivitsy, mamondrona, taho mijoro mahitsy na mihilana na mitolefika



Annual or perennial, short-lived, caespitose, stolons absent or present, culms erect or ascending or decumbent



Raviny 1–14 × 0.10–0.50 sm, malama



Leaf blades 1–14 × 0.10–0.50 cm, glabrous



Sampana mivelatra, 1–12 sm



Panicle open, 1–12 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–10 mm



Spikelets solitary, fertile spikelets pedicelled, 3–10 mm long



Tropika, 0–2000 m



Tropics, 0–2,000 m



Tsy misy voarakitra



None recorded



Tsy misy fanamarihana



No notes



FR



FR



FR



FR

*Poa madecassa* A.Camus

Tsy Fantatra



Velona mandavantaona, misy ladina, taho mijoro mahitsy



Raviny 4–10 × 0.10–0.15 sm, malama



Sampana mivelatra, 4–20 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5 mm



Madagasikara, 1800–2000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, stolons present, culms erect



Leaf blades 4–10 × 0.10–0.15 cm, glabrous



Panicle open, 4–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 5 mm long



Madagascar, 1,800–2,000 m



None recorded



No notes



DFLN22



DFLN22



DFLN22



## *Poa perrieri* A.Camus

Tsy Fantatra

|                                                                                   |                                                                         |                                                                                    |                                                             |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------|
|   | Mitsiry isan-taona, taho mihilana                                       |   | Annual, culms ascending                                     |
|   | Raviny 5–6 × 0.10–0.15 sm, malama                                       |   | Leaf blades 5–6 × 0.10–0.15 cm, glabrous                    |
|   | Sampana mivelatra, 10–13 sm                                             |   | Panicle open, 10–13 cm long                                 |
|   | Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5 mm |   | Spikelets solitary, fertile spikelets pedicelled, 5 mm long |
|   | Madagasikara, 2400–2500 m                                               |   | Madagascar, 2,400–2,500 m                                   |
|   | Tsy misy voarakitra                                                     |   | None recorded                                               |
|  | Tsy hita afa tsy amin'ny faritra manodidina an'Andringitra              |  | Endemic to Andringitra area                                 |





## *Poecilostachys bakeri* (Schinz) C.E.Hubb.

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 4–10 × 0.5–1 sm, malama na voloina



Rantsana 4–6, mitsiry manaraka ny tahony, 3–6 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 4.5–5 mm



Madagasikara, 1000–2500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 4–10 × 0.5–1 cm, glabrous or pilose



Racemes 4–6, borne along a central axis, 3–6 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 4.5–5 mm long



Madagascar, 1,000–2,500 m



None recorded



In need of further study



MV



MV



MV



## *Poecilostachys hildebrandtii* Hack.

Tsy Fantatra



Velona mandavantaona, taho mitolefika



Raviny 2–7 × 1–1.7 sm, malama na voloina



Rantsana 3–5, mitsiry manaraka ny tahony, 2–5 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 6–7 mm



Madagasikara, 1000–2500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, culms decumbent



Leaf blades 2–7 × 1–1.7 cm, glabrous or pilose



Racemes 3–5, borne along a central axis, 2–5 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 6–7 mm long



Madagascar, 1,000–2,500 m



None recorded



In need of further study



MV



MV



MV



MV

## *Pogonarthria squarrosa* (Licht.) Pilg.

Fantakavazaha



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 4–33 × 0.20–0.55 cm, maraorao



Rantsana maro mitsiry manaraka ny tahony, misamaka na mihilana, 1–6.5 cm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3.3–7.8 mm



Afrika, Madagasikara, 0–1600 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 4–33 × 0.20–0.55 cm, scabrous



Racemes numerous, borne along a central axis, 1–6.5 cm long



Spikelets solitary, fertile spikelets sessile, 3.3–7.8 mm long



Africa, Madagascar, 0–1,600 m



None recorded



No notes



MV



DFLN22



RB



MV



## *Pogonatherum paniceum* (Lam.) Hack.

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, taho matory



Perennial, mat forming, culms prostrate



Raviny 2–6 × 0.10–0.30 sm, malama



Leaf blades 2–6 × 0.10–0.30 cm, glabrous



Tokan-drantsana, 2–4 sm



Racemes single, 2–4 cm long



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–3 mm



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–3 mm long



Tropika, 0–1600 m



Tropics, 0–1,600 m



Haingon-tanàna



Ornamental plant



Tsy misy fanamarihana



No notes



FR



FR



FR



FR

## *Pseudechinolaena perrieri* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mandrafitra tsihy, taho matory



Raviny 0.8–3 × 0.40–0.80 sm, malama na voloina



Rantsana 5–8, mitsiry manaraka ny tahony, 0.5–2.5 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.2–2.5 mm



Madagasikara, 0–800 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, mat forming, culms prostrate



Leaf blades 0.8–3 × 0.40–0.80 cm, glabrous or hispidous



Racemes 5–8, borne along a central axis, 0.5–2.5 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.2–2.5 mm long



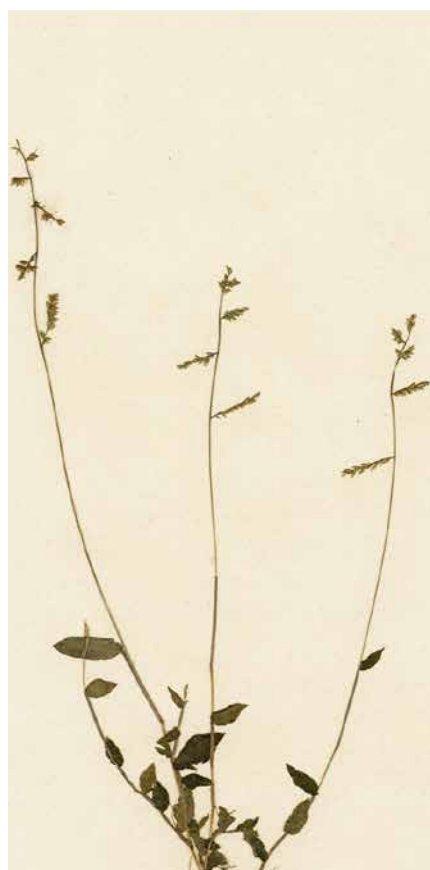
Madagascar, 0–800 m



None recorded



No notes



NR



NR



NR



# *Pseudechinolaena polystachya* (Kunth) Stapf

Tsy Fantatra

|                                                                                   |                                                                                                      |                                                                                    |                                                                                                         |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
|   | Mitsiry isan-taona, mandrafitra tsihy, taho matory                                                   |   | Annual, mat forming, culms prostrate                                                                    |
|   | Raviny 1–8 × 0.30–2 sm, malama                                                                       |   | Leaf blades 1–8 × 0.30–2 cm, glabrous                                                                   |
|   | Rantsana 2–8, mitsiry manaraka ny tahony, 0.5–6 sm                                                   |   | Racemes 2–8, borne along a central axis, 0.5–6 cm long                                                  |
|   | Akotry mitsitokatokana na miaraka tsiroaroa, izay mamoa dia misy na tsy misy taho, mirefy 3.5–5.7 mm |   | Spikelets solitary or in pairs, fertile spikelets pedicelled or sessile and pedicelled, 3.5–5.7 mm long |
|   | Tropika, 0–800 m                                                                                     |   | Tropics, 0–800 m                                                                                        |
|   | Tsy misy voarakitra                                                                                  |   | None recorded                                                                                           |
|  | Tsy misy fanamarihana                                                                                |  | No notes                                                                                                |



MV



MV



MV

# *Pseudobromus breviligulatus* Stapf ex A.Camus

Tsy Fantatra



Velona mandavantaona



Raviny 25–35 × 0.8–1 sm, malama na maraorao



Sampana, 20–32 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 18–24 mm



Madagasikara, 0–800 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial



Leaf blades 25–35 × 0.8–1 cm, glabrous or scabrous



Panicle, 20–32 cm long



Spikelets solitary, fertile spikelets sessile, 18–24 mm long



Madagascar, 0–800 m



None recorded



In need of further study



MV



MV



MV



MV



*Pseudolasiacis leptolomoides* (A.Camus) A.Camus

Tsy Fantatra



Velona mandavantaona, mitolefika



Raviny 15–16 × 0.90–1.4 sm, malama



Sampana mivelatra, 15–22 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4.5–4.8 mm



Nosy Mascareignes, Madagasikara, 800–1500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, culms scrambling



Leaf blades 15–16 × 0.90–1.4 cm, glabrous



Panicle open, 5–22 cm long



Spikelets solitary, fertile spikelets pedicelled, 4.5–4.8 mm long



Mascarene Islands, Madagascar, 800–1,500 m



None recorded



No notes



MV



MV



MV

## *Rhytachne rottboellioides* Desv.

Forona, Horondany, Horondrano, Kifafadrano, Kifafandrano, Kifafarano, Kifofozano



Velona, mamondrona



Raviny 5–25 × 0.05–0.10 sm, malama



Tokan-drantsana, 2–20 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–6 mm



Afrika, Madagasikara, 800–2000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose



Leaf blades 5–25 × 0.05–0.10 cm, glabrous



Racemes 1, 2–20 cm long



Spikelets in pairs, fertile spikelets sessile, 2–6 mm long



Africa, Madagascar, 800–2,000 m



None recorded



No notes



MV



MV



MV



## *Rottboellia cochinchinensis* (Lour.) Clayton

Fataka malailay, Malailay, Kalay, Paipaikatianomby, Tsanganday, Vero malay



Mitsiry isan-taona, mijoro mahitsy



Raviny 15–45 × 0.50–2 sm, maraorao



Tokan-drantsana, 3–15 sm



Akotry milentika amin'ny rantsany, miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3.5–5 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms erect



Leaf blades 15–45 × 0.50–2 cm, scaberulous



Racemes 1, 3–15 cm long



Spikelets sunken, in pairs, fertile spikelets sessile, 3.5–5 mm long



Tropics, 0–1,000 m



None recorded



No notes



FR



FR



FR



FR



FR



## *Saccharum officinarum* L.

Andrafo, Betsa, Betsabetsa, Farimainty, Farimaintsy, Farimanga, Fary, Fiapary, Fisika, Fisiky, Lailay, Laim-pary, Lengompany, Mavotohana, Mavotohona



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 70–150 × 3.0–6.0 sm, maraorao



Sampana mivelatra, 40–60 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 7–12 mm



Tropika, 0–3000 m



Fanaovana siramamy sy toaka, ateteka anaty orona ny ranony hitsaboana gripa, ampiasaina amin'ny fombafomba malagasy



Mahazatra



Perennial, caespitose, rhizomes absent, culms erect



Leaf blades 70–150 × 3.0–6.0 cm, scaberulous



Panicle open, 40–60 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 7–12 mm long



Tropics, 0–3,000 m



Sugar and rum raw material, juice applied into the nose to treat flu, used in some Malagasy rituals



Common



MV



FR



FR



FR



## *Sacciolepis africana* C.E.Hubb. & Snowden

Adalavatana, Lavavatana, Savonimbary, Tsiparifary



Velona mandavantaona, rizoma fohy, taho mitolefika



Raviny 5–40 × 0.30–1.5 sm, malama



Sampana miendrika salohy, 4–30 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5–3.5 mm



Afrika, Madagasikara, 0–1800 m



Vilona, zezika, solon-tsavony



Tsy misy fanamarihana



Perennial, rhizomes short, culms decumbent



Leaf blades 5–40 × 0.30–1.5 cm, glabrous



Panicle spiciform, 4–30 cm long



Spikelets solitary, fertile spikelets pedicelled, 2.5–3.5 mm long



Africa, Madagascar, 0–1,800 m



Forage, compost, used as soap



No notes



FMN23



FMN23



FMN23



FMN23

## *Sacciolepis curvata* (L.) Chase

Ahidronono



Velona mandavantaona, rizoma lava, taho mitolefika



Raviny 3–11 × 0.30–1.2 sm, malama



Sampana mivelatra na mikombona, 4–17 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–3 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, rhizomes elongated, culms decumbent



Leaf blades 3–11 × 0.30–1.2 cm, glabrous



Panicle open or contracted, 4–17 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–3 mm long



Tropics, 0–1,000 m



None recorded



No notes



MV



MV



MV



MV



# *Sacciolepis indica* (L.) Chase

Tsiparifary



Mitsiry isan-taona, taho mihilana na mitolefika



Raviny 2–20 × 0.10–0.70 sm, maraorao



Sampana miendrika salohy, 1–13 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–3 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms ascending or decumbent



Leaf blades 2–20 × 0.10–0.70 cm, scaberulous



Panicle spiciform, 1–13 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–3 mm long



Tropics, 0–1,500 m



None recorded



No notes



FR



FR



FR



FR



FMN23

# *Sartidia isaloensis* Voronts., Razanats. & Besnard

Tsy Fantatra



Velona mandavantaona, rizoma fohy



Raviny 15–25 × 0.15–0.25 cm, malama na maraorao



Sampana mikombona, 10–20 cm



Akotry mitsitokatokana, mirefy 1–1.5 cm



Madagasikara, 800–1500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova *et al.* 2015



Perennial, short rhizomes



Leaf blades 15–25 × 0.15–0.25 cm, glabrous to scaberulous



Panicle contracted, 10–20 cm long



Spikelets solitary, fertile spikelets 1–1.5 cm long



Madagascar, 800–1,500 m



None recorded



Information in Vorontsova *et al.* 2015



MV



MV



MV



NR



## *Schizachyrium sanguineum* (Retz.) Alston

Ahiborisoa, Ahitsorohitra, Akata vero



Velona mandavantaona, mamondrona



Raviny 6–30 × 0.20–0.90 sm, malama



Tokan-drantsana, 2–15(–20) sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 5–10 mm



Tropika, 500–1000 m



Tsy misy voarakitra



Mahazatra



Perennial, caespitose



Leaf blades 6–30 × 0.20–0.90 cm, glabrous



Racemes 1, 2–15(–20) cm long



Spikelets in pairs, fertile spikelets sessile, 5–10 mm long



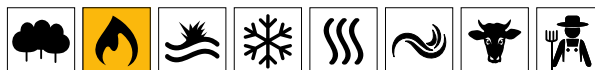
Tropics, 500–1,000 m



None recorded



Common



MV



MV



MV



MV

# *Sclerodactylon macrostachyum* (Benth.) A.Camus

Tsibotsiboka



Velona mandavantaona, mamondrona, misy ladina, mijoro mahitsy



Raviny 10–30 × 0.20–0.30 sm, malama



Rantsana 2(–3), 7–12 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 5–20 mm



Afrika, Madagasikara, 500–1000 m



Manasitrana kohaka



Mahazatra



Perennial, caespitose, stolons present, culms erect



Leaf blades 10–30 × 0.20–0.30 cm, glabrous



Racemes 2(–3), 7–12 cm long



Spikelets solitary, fertile spikelets sessile, 5–20 mm long



Africa, Madagascar, 500–1,000 m



Cough relief



Common



MV



MV



ER



MV



# *Setaria barbata* (Lam.) Kunth

Tsikasakasaka



Mitsiry isan-taona, mamondrona



Raviny 5–30 × 0.50–2 sm, malama



Sampana mivelatra, 3–25 sm



Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 2–3.2 mm



Tropika, 500–1000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose



Leaf blades 5–30 × 0.50–2 cm, glabrous



Panicle open, 3–25 cm long



Spikelets subtended by bristles, fertile spikelets pedicelled, 2–3.2 mm long



Tropics, 500–1,000 m



None recorded



In need of further study



FR



FR



FR



FR



FR

# *Setaria humbertiana* A.Camus

Tsy Fantatra



Mitsiry isan-taona



Raviny 15–45 × 0.50–0.60 sm, malama na maraorao



Sampana, 10–20 sm



Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 2.8–3 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual



Leaf blades 15–45 × 0.50–0.60 cm, glabrous or scaberulous



Panicle, 10–20 cm long



Spikelets subtended by bristles, fertile spikelets pedicelled, 2.8–3 mm long



Madagascar, 0–500 m



None recorded



In need of further study



MV



MV



MV



# *Setaria madecassa* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 6–20 × 0.20–0.60 sm, voloina



Sampana mivelatra, 5–15 sm



Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 2 mm



Madagasikara, 0–1000 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms ascending



Leaf blades 6–20 × 0.20–0.60 cm, hirsute



Panicle open, 5–15 cm long



Spikelets subtended by bristles, fertile spikelets pedicelled, 2 mm long



Madagascar, 0–1,000 m



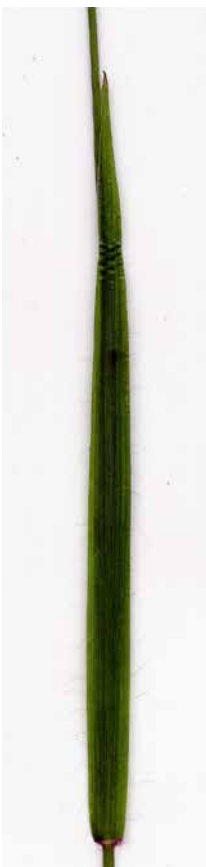
None recorded



In need of further study



MV



MV



DR



MV

# *Setaria megaphylla* (Steud.) T.Durand & Schinz

Tsikakasaka, Tsilainday



Velona mandavantaona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 10–80 × 0.50–11 sm, malama



Sampana mivelatra, 10–60 sm



Akotry iodidinam-bolo, izay tsy misy tangozana no mamoa, mirefy 2.2–4.5 mm



Afrika, Madagasikara, 200–1500 m



Tsy misy voarakitra



Mahazatra



Perennial, caespitose, culms erect or ascending



Leaf blades 10–80 × 0.50–11 cm, glabrous



Panicle open, 10–60 cm long



Spikelets subtended by bristles, fertile spikelets sessile, 2.2–4.5 mm long



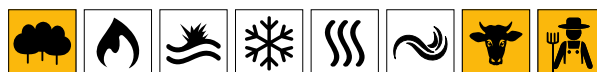
Africa, Madagascar, 200–1,500 m



None recorded



Common



FR



FR



FR



FR



## *Setaria pumila* (Poir.) Roem. & Schult.

Ankatofotsy, Taindalitra, Tanandalitra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 3–30 × 0.20–1 sm, malama



Sampana miendrika salohy, 1–10(–20) sm



Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 1.5–3.5 mm



Tropika, 100–1700 m



Vilona, zezika, kilalao



Mahazatra



Annual, caespitose, culms ascending



Leaf blades 3–30 × 0.20–1 cm, glabrous



Panicle spiciform, 1–10(–20) cm long



Spikelets subtended by bristles, fertile spikelets pedicelled, 1.5–3.5 mm long



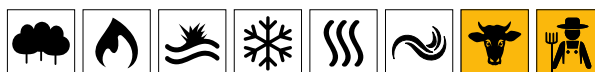
Tropics, 100–1,700 m



Forage, compost, toys



Common



FR



FR



FR



FR



FR



# *Setaria sphacelata* (Schumach.) Stapf & C.E.Hubb. ex Moss

Tsy Fantatra



Velona mandavantaona, mamondrona, rizoma fohy na lava



Raviny 10–50 × 0.20–1.7 sm, malama



Sampana mikombona, 3–50 sm



Akotry iodidinam-bolo, izay tsy misy tangozana no mamoa, mirefy 1.5–3.5 mm



Afrika, Madagasikara, 500–2000 m



Vilona



Mahazatra



Perennial, caespitose, rhizomes short or elongated



Leaf blades 10–50 × 0.20–1.7 cm, glabrous



Panicle spiciform, 3–50 cm long



Spikelets subtended by bristles, fertile spikelets sessile, 1.5–3.5 mm long



Africa, Madagascar, 500–2,000 m



Forage



Common



FR



FR



FR



FR



FR



# *Setaria vatkeana* K.Schum.

Tsy Fantatra

|                                                                                   |                                                                            |                                                                                    |                                                                              |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
|   | Mitsiry isan-taona, mamondrona                                             |   | Annual, caespitose                                                           |
|   | Raviny 10–30 × 0.10–0.40 sm, malama na voloina                             |   | Leaf blades 10–30 × 0.10–0.40 cm, glabrous or pilose                         |
|   | Sampana mikombona, 7–30 sm                                                 |   | Panicle contracted, 7–30 cm long                                             |
|   | Akotry iodidinam-bolo, izay misy tangozana ihany no mamoa, mirefy 3–3.5 mm |   | Spikelets subtended by bristles, fertile spikelets pedicelled, 3–3.5 mm long |
|   | Madagasikara, 0–1000 m                                                     |   | Madagascar, 0–1,000 m                                                        |
|   | Tsy misy voarakitra                                                        |   | None recorded                                                                |
|  | Tsy misy fanamarihana                                                      |  | No notes                                                                     |



MV



DR



DR



DR



DR

# *Sorghastrum incompletum* (J.Presl) Nash

Varinakanga



Mitsiry isan-taona, taho mitolefika



Raviny 10–60 × 0.30–1 sm, malama



Sampana mivelatra, 10–40 sm



Akotry miaraka tsitelotelo, izay tsy misy tangozana no mamoa, mirefy 4–5.5 mm



Tropika, 0–200 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms decumbent



Leaf blades 10–60 × 0.30–1 cm, glabrous



Panicle open, 10–40 cm long



Spikelets in threes, fertile spikelets sessile, 4–5.5 mm long



Tropics, 0–200 m



None recorded



No notes



RB



RB



RB



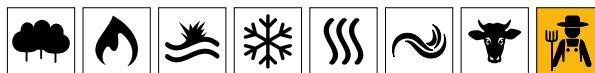
RB



# *Sorghum arundinaceum* (Desv.) Stapf

Bakaka

|                                                                                   |                                                                           |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|   | Mitsiry isan-taona na velona mandavantaona                                |   | Annual or perennial, rhizomes absent                       |
|   | Raviny 5–75 × 0.50–7.0 sm, maraorao                                       |   | Leaf blades 5–75 × 0.50–7.0 cm, scabrous                   |
|   | Sampana mivelatra, 10–60 sm                                               |   | Panicle open, 10–60 cm long                                |
|   | Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 4–9 mm |   | Spikelets in pairs, fertile spikelets sessile, 4–9 mm long |
|   | Tropika, 0–200 m                                                          |   | Tropics, 0–200 m                                           |
|   | Tsy misy voarakitra                                                       |   | None recorded                                              |
|  | Tsy misy fanamarihana                                                     |  | No notes                                                   |



FR



FR



FR



FR

## *Sorghum bicolor* (L.) Moench

Apemba, Ampembambazaha, Ampembimasombika, Ampemby, Bakaky, Bekaka, Benaka, Femba, Fembamboloky, Honkona, Morama, Morona, Pembamboloky, Tsimangetahilia, Variampemba, Variampemby, Varifemba, Vero



Mitsiry isan-taona, mijoro mahitsy



Raviny 30–100 × 0.50–1 sm, malama



Sampana mivelatra na mikombona, 4–50 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 3–10 mm



Afrika, Madagasikara, 0–1800 m



Ambolena atao sakafon'olombelona sy biby fiompy, atao tambavy hisorohana ny fahafahan-jaza sy hitsaboana angorosy, haingon-tanana



Tsy misy fanamarihana



Annual, culms erect



Leaf blades 30–100 × 0.50–1 cm, glabrous



Panicle open or contracted, 4–50 cm long



Spikelets in pairs, fertile spikelets sessile, 3–10 mm long



Africa, Madagascar, 0–1800 m



Cereal crop and forage, decoction treats miscarriage and jaundice, ornamental



No notes



MV



FR



FR



FR



FR



## *Sporobolus africanus* (Poir.) Robyns & Tournay

Horomainty, Horompotsy, Horompotsilahy, Kofafalahy



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 20–40 × 0.10–0.40 sm, malama



Sampana miendrika salohy, 10–35 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.1–2.8 mm



Tropika, 0–1800 m



Endasina ny voany hitsaboana vava mivonto



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 20–40 × 0.10–0.40 cm, glabrous



Panicle contracted or spiciform, 10–35 cm long



Spikelets solitary, fertile spikelets pedicelled, 2.1–2.8 mm long



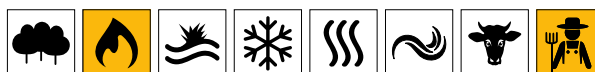
Tropics, 0–1,800 m



The spikelets are fried to treat swollen mouth



In need of further study



FR



FR



FR



FR



FR



# *Sporobolus centrifugus* (Trin.) Nees

Kifanjy, Kodrodritsa



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 6–30 × 0.10–0.15 mm, malama



Sampana mivelatra na mikombona, (4–)8–18 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5–4.2 mm



Afrika, Madagasikara, 0–2200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 6–30 × 0.10–0.15 mm, glabrous



Panicle open or contracted, (4–)8–18 cm long



Spikelets solitary, fertile spikelets pedicelled, 2.5–4.2 mm long



Africa, Madagascar, 0–2,200 m



None recorded



In need of further study



DFLN22



DFLN22



DFLN22



DFLN22



# *Sporobolus coromandelianus* (Retz.) Kunth

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 2–10 × 0.20–0.40 sm, malama



Sampana mivelatra, 2–8 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 0.9–1.7 mm



Tropika, 0–500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, caespitose, culms erect or ascending



Leaf blades 2–10 × 0.20–0.40 cm, glabrous



Panicle open, 2–8 cm long



Spikelets solitary, fertile spikelets pedicelled, 0.9–1.7 mm long



Tropics, 0–500 m



None recorded



In need of further study



FR



FR



FR



FR



FR



# *Sporobolus perrieri* A.Camus

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 1–2 × 0.10–0.15 sm, malama



Sampana mikombona na miendrika salohy, 2–3 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.9–2 mm



Madagasikara, 0–1500 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Perennial, caespitose, culms erect



Leaf blades 1–2 × 0.10–0.15 cm, glabrous



Panicle contracted or spiciform, 2–3 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.9–2 mm long



Madagascar, 0–1,500 m



None recorded



In need of further study



MV



MV



MV



## *Sporobolus pyramidalis* P.Beauv.

Ahikongona, Horompotsy, Kitaratasy, Toiana, Tsiana, Tsidrodrotra



Velona mandavantaona, mamondrona, mijoro mahitsy



Perennial, caespitose, culms erect



Raviny 20–50 × 0.30–1 sm, malama



Leaf blades 20–50 × 0.30–1 cm, glabrous



Sampana mivelatra, 20–45 sm



Panicle open, 20–45 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.7–2 mm



Spikelets solitary, fertile spikelets pedicelled, 1.7–2 mm long



Tropika, 0–2000 m



Tropics, 0–2,000 m



Rary sy asa-tànana



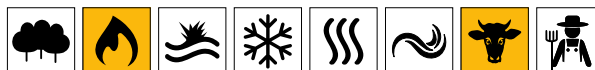
Basketry and hand craft



Mahazatra



Common



FR



FR



ER



FR



FR



FR

# *Sporobolus tenuissimus* (Mart. ex Schrank) Kuntze

Tsy Fantatra



Mitsiry isan-taona, taho mihilana



Raviny 5–20 × 0.20–0.50 sm, malama



Sampana mivelatra, 10–40 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 0.8–1 mm



Tropika, 0–1200 m



Tsy misy voarakitra



Mila fandalinana fanampiny



Annual, culms ascending



Leaf blades 5–20 × 0.20–0.50 cm, glabrous



Panicle open, 10–40 cm long



Spikelets solitary, fertile spikelets pedicelled, 0.8–1 mm long



Tropics, 0–1,200 m



None recorded



In need of further study



FR



FR



FR



FR



FR



# *Sporobolus virginicus* (L.) Kunth

Fandroalakana



Velona mandavantaona, mandrafitra tsihy, rizoma lava



Perennial, mat forming, rhizomes elongated



Raviny 2–10 × 0.10–0.40 sm, malama



Leaf blades 2–10 × 0.10–0.40 cm, glabrous



Sampana miendrika salohy, 2–10 sm



Panicle spiciform, 2–10 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.7–2.5 mm



Spikelets solitary, fertile spikelets pedicelled, 1.7–2.5 mm long



Tropika, 0–100 m



Tropics, 0–100 m



Tsy misy voarakitra



None recorded



Mahazatra



Common



ER



MV



ER



FR

## *Stenotaphrum dimidiatum* (L.) Brongn.

Ahijaza, Ahipisaka



Velona mandavantaona, mandrafitra tsihy, misy ladina, taho matory



Raviny 5–20 × 0.50–1.2 sm, malama



Rantsana mitsiry manaraka ny tahony, 0.7–1.5 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 4–5 mm



Tropika, 0–1200 m



Tombokahitra, itsaboana alobotra na alofisaka, famantarana ny tany azo ambolena



Mahazatra



Perennial, mat forming, stolons present, culms prostrate



Leaf blades 5–20 × 0.50–1.2 cm, glabrous



Racemes borne along a central axis, 0.7–1.5 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 4–5 mm long



Tropics, 0–1,200 m



Lawn, treats diseases that make children look plump or thin, cultivatable soil indicator



Common



FR



FR



FR



FR



FR



# *Stenotaphrum oostachyum* Baker

Tsy Fantatra



Velona mandavantaona, mandrafitra tsihy, misy ladina



Raviny 2–8 × 0.30–0.80 sm, malama



Tokan-drantsana, 0.5–1.5 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 2–2.5 mm



Madagasikara, 0–1600 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, mat forming, stolons present



Leaf blades 2–8 × 0.30–0.80 cm, glabrous



Racemes single, 0.5–1.5 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 2–2.5 mm long



Madagascar, 0–1,600 m



None recorded



No notes



MV



MV



ER



MV

# *Stenotaphrum unilaterale* Baker

Ahidrindra



Velona mandavantaona, mandrafitra tsihy, misy ladina



Raviny 5–12 × 0.30–0.60 sm, malama



Rantsana 12–16, mitsiry manaraka ny tahony, 0.6–1.5 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 5 mm



Madagasikara, 1000–1600 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, mat forming, stolons present



Leaf blades 5–12 × 0.30–0.60 cm, glabrous



Racemes 12–16, borne along a central axis, 0.6–1.5 cm long



Spikelets solitary, fertile spikelets sessile, 5 mm long



Madagascar, 1,000–1,600 m



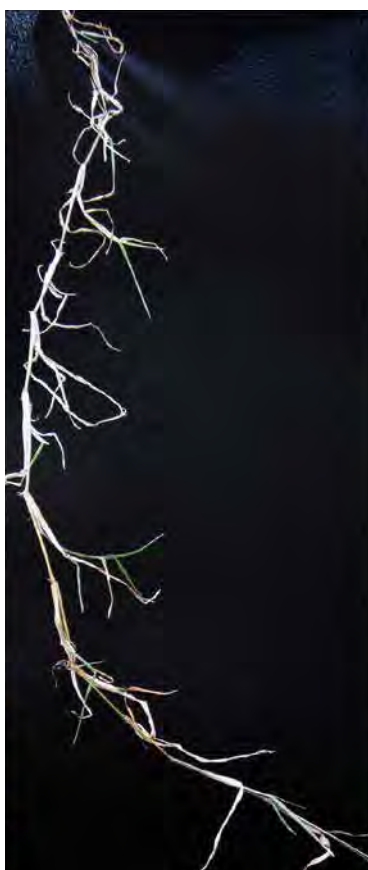
None recorded



No notes



FMN23



FMN23



FMN23



FMN23



*Styppeiochloa hitchcockii* (A.Camus) Cope

Kelimahintsy, Tiritsakafo



Velona mandavantaona, mamondrona



Raviny 0–15 × 0.15–0.20 sm, malama



Sampana mivelatra, 6–12 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 5–6 mm



Madagasikara, 0–2400 m



Akora fanamboarana satroka



Voarakitra ao amin'ny Teisher et al. 2022



Perennial, caespitose



Leaf blades 0–15 × 0.15–0.20 cm, glabrous



Panicle open, 6–12 cm long



Spikelets solitary, fertile spikelets pedicelled, 5–6 mm long



Madagascar, 0–2,400 m



Making hats



Information in Teisher et al. 2022



FMN23



MV



FMN23



FMN23



FMN23

## *Themeda quadrivalvis* (L.) Kuntze

Verokely, Verovahiny, Sindambo, Symena



Mitsiry isan-taona, taho mijoro mahitsy na mihilana



Raviny 7–30 × 0.30–0.60 sm, malama na voloina



Tokan-drantsana, 7.5–16 sm



Akotry miaraka tsitelotelo, izay tsy misy tangozana no mamoa, mirefy 5–5.5 mm



Tropika, 0–1000 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, culms erect or ascending



Leaf blades 7–30 × 0.30–0.60 cm, glabrous or pilose



Racemes single, 7.5–16 cm long



Spikelets in threes, fertile spikelets sessile, 5–5.5 mm long



Tropics, 0–1,000 m



None recorded



No notes



DR



FR



FR



FR



FR



## *Thuarea perrieri* A.Camus

Tsy Fantatra

|                                                                                   |                                                                         |                                                                                    |                                                            |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------|
|   | Mitsiry isan-taona, misy ladina, taho mitolefika                        |   | Annual, stolons present, culms decumbent                   |
|   | Raviny 2–8 × 0.40–1 sm, malama na voloina                               |   | Leaf blades 2–8 × 0.40–1 cm, pilose or glabrous            |
|   | Tokan-drantsana, 1.2–2 sm                                               |   | Raceme solitary, 1.2–2 cm long                             |
|   | Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 5–6 mm |   | Spikelets solitary, fertile spikelets sessile, 5–6 mm long |
|   | Madagasikara, 0–1500 m                                                  |   | Madagascar, 0–1,500 m                                      |
|   | Tsy misy voarakitra                                                     |   | None recorded                                              |
|  | Tsy misy fanamarihana                                                   |  | No notes                                                   |



MV



NR



MV



MV

# *Thysanolaena latifolia* (Roxb. ex Hornem.) Honda

Tsy Fantatra



Velona mandavantaona, mamondrona



Raviny 30–60 × 3.0–7.0 sm, malama



Sampana mivelatra, 30–60 sm



Akotry mitsitokatokana na miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 1.5–2 mm



Tropika, 0–1500 m



Haingon-tanana



Tsy misy fanamarihana



Perennial, caespitose



Leaf blades 30–60 × 3.0–7.0 cm, glabrous



Panicle open, 30–60 cm long



Spikelets solitary or in pairs, fertile spikelets pedicelled, 1.5–2 mm long



Tropics, 0–1,500 m



Decorative



No notes



MV



MV



MV



MV



## *Trachypogon spicatus* (L.f.) Kuntze

Danga, Horo, Horondahy



Velona mandavantaona, mamondrona



Raviny 15–40 × 0.10–0.70 sm, malama



Rantsana 1(–3), tokana na miaraka tsiroaroa, misamaka na tsia, 4–30 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 1–3 mm



Tropika, 300–2500 m



Tsy misy voarakitra



Mahazatra



Perennial, caespitose



Leaf blades 15–40 × 0.10–0.70 cm, glabrous



Racemes 1(–3), 4–30 cm long



Spikelets in pairs, fertile spikelets pedicelled, 1–3 mm long



Tropics, 300–2,500 m



None recorded



Common



## *Tragus berteronianus* Schult.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 1–6 × 0.20–0.50 sm, malama



Rantsana maro mitsiry manaraka ny tahony, 0.3–0.7 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 2–3 mm



Tropika, 0–750 m



Tsy misy voarakitra



Tsy misy fanamarihana



Annual, caespitose, culms erect or ascending



Leaf blades 1–6 × 0.20–0.50 cm, glabrous



Racemes numerous, borne along a central axis, closely spaced, in a false spike, 0.3–0.7 cm long



Spikelets in pairs, fertile spikelets sessile, 2–3 mm long



Tropics, 0–750 m



None recorded



No notes



ER



ER



ER



# *Trichanthecium parvifolium* (Lam.) Zuloaga & Morrone

Ahipody



Velona mandavantaona, mandady, taho matory



Raviny 1.5–3 × 0.20–0.70 sm, malama



Sampana mivelatra, 1–3 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1–2 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2018



Perennial, culms prostrate



Leaf blades 1.5–3 × 0.20–0.70 cm, glabrous



Panicle open, 1–3 cm long



Spikelets solitary, fertile spikelets pedicelled, 1–2 mm long



Tropics, 0–1,500 m



None recorded



Information in Vorontsova 2018



MV



MV



MV

## *Tricholaena monachne* (Trin.) Stapf & C.E.Hubb.

Ahipody



Velona mandavantaona na taona vitsivitsy, mamondrona, taho mijoro mahitsy na mihilana



Raviny 5–20 × 0.10–0.60 cm, malama



Sampana mivelatra, 6–20 cm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 1.5–2.5 mm



Tropika, 0–1500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, short-lived, caespitose, culms erect or ascending



Leaf blades 5–20 × 0.10–0.60 cm, glabrous



Panicle open, 6–20 cm long



Spikelets solitary, fertile spikelets pedicelled, 1.5–2.5 mm long



Tropics, 0–1,500 m



None recorded



No notes



FR



FR



FR



FR



# *Trichopteryx dregeana* Nees

Tsy Fantatra



Velona mandavantaona, mandady, taho matory



Raviny 1–3 × 0.10–0.30 sm, malama



Sampana mivelatra, 3–15 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 4–5 mm



Afrika, Madagasikara, 700–1800 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, culms prostrate



Leaf blades 1–3 × 0.10–0.30 cm, glabrous



Panicle open, 3–15 cm long



Spikelets solitary, fertile spikelets pedicelled, 4–5 mm long



Africa, Madagascar, 700–1,800 m



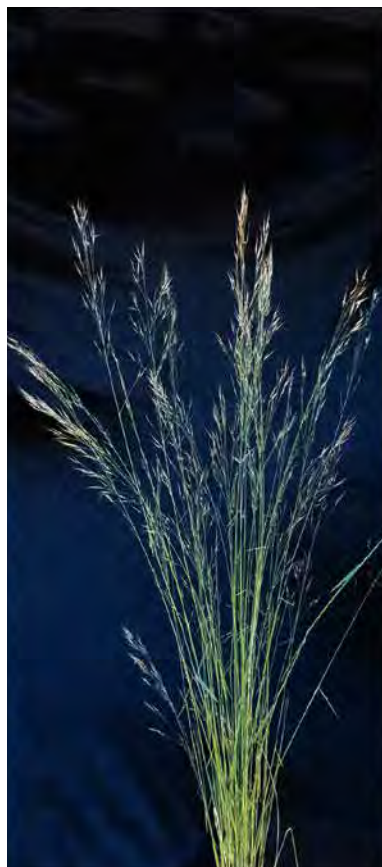
None recorded



No notes



FMN23



FMN23



FMN23



FMN23

# *Tripogonella minima* (A.Rich.) P.M.Peterson & Romasch.

Tsy Fantatra



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 1–9 × 0.05–0.10 sm, malama



Tokan-drantsana, 2–8 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.6–8 mm



Afrika, Madagasikara, 700–1800 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 1–9 × 0.05–0.10 cm, glabrous



Racemes 1, 2–8 cm long



Spikelets solitary, fertile spikelets sessile, 2.6–8 mm long



Africa, Madagascar, 700–1,800 m



None recorded



No notes



MV



MV



MV



MV



# *Tripsacum laxum* Nash

Herbe de Guatemala



Velona mandavantaona, mijoro mahitsy



Raviny 40–80 × 3–7 sm, malama



Rantsana 12–23, misamaka, 10–20 sm



Akotry milentika amin'ny rantsany, tokana, izay tsy misy tangozana no mamoa, mirefy 5 mm



Tropika, 0–2000 m



Vilo-maitso



Tsy misy fanamarihana



Perennial, culms erect



Leaf blades 40–80 × 3–7 cm, glabrous



Racemes 12–23, digitate, 10–20 cm long



Spikelets sunken, solitary, fertile spikelets sessile, 5 mm long



Tropics, 0–2,000 m



Green fodder



No notes



FMN23



FMN23



FMN23

# *Trisetopsis elongata* (Hochst. ex A.Rich.) Röser & A.Wölk

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mijoro mahitsy na mitolefika



Raviny 15–45 × 0.20–0.50 sm, malama



Sampana mivelatra, 10–35 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 8–14 mm



Afrika, Madagasikara, 1500–2500 m



Tsy misy voarakitra



Tsy misy fanamarihana



Perennial, caespitose, culms erect or decumbent



Leaf blades 15–45 × 0.20–0.50 cm, glabrous



Panicle open, 10–35 cm long



Spikelets solitary, fertile spikelets pedicelled, 8–14 mm long



Africa, Madagascar, 1,500–2,500 m



None recorded



No notes



MV



MV



MV



MV



Tristachya humbertii A.Camus

Tsy Fantatra

|                                                                                    |                                                                                 |                                                                                     |                                                                  |
|------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------|
|    | Velona mandavantaona, mamondrona, rizoma fohy, taho mitolefika                  |    | Perennial, caespitose, rhizomes short, culms decumbent           |
|    | Raviny 10–13 × 0.40–0.50 sm, maraorao                                           |    | Leaf blades 10–13 × 0.40–0.50 cm, scabrous                       |
|    | Sampana mikombona, 5–15 sm                                                      |    | Panicle contracted, 5–15 cm long                                 |
|    | Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 12–13 mm |    | Spikelets in threes, fertile spikelets pedicelled, 12–13 mm long |
|    | Madagasikara, 800–1600 m                                                        |    | Madagascar, 800–1,600 m                                          |
|    | Tsy misy voarakitra                                                             |    | None recorded                                                    |
|  | Voarakitra ao amin'ny Vorontsova & Rakotomalala 2021                            |  | Information in Vorontsova & Rakotomalala 2021                    |



MV



MV



MV



MV

# *Tristachya isalensis* (A.Camus) Voronts. & Rakotom.

Ahikibobo



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 1.5–10 × 0.15–0.20 sm, malama



Sampana mivelatra, 3.5–8 sm



Akotry miaraka tsitelotelo, izay misy tangozana ihany no mamoa, mirefy 9–14 mm



Madagasikara, 800–1600 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova & Rakotomalala 2021



Perennial, caespitose, culms erect



Leaf blades 1.5–10 × 0.15–0.20 cm, glabrous



Panicle open, 3.5–8 cm long



Spikelets in threes, fertile spikelets pedicelled, 9–14 mm long



Madagascar, 800–1,600 m



None recorded



Information in Vorontsova & Rakotomalala 2021



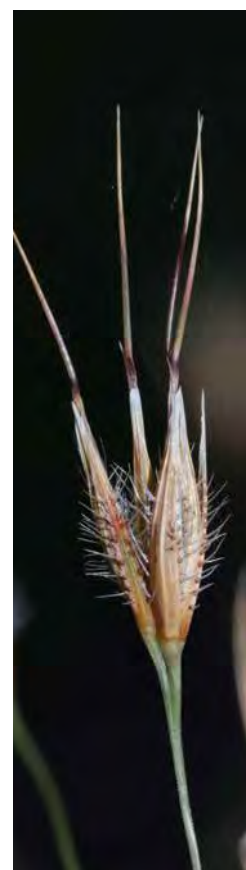
MV



MV



MV



NR



# *Triticum aestivum* L.

Varimbazaha



Mitsiry isan-taona, mamondrona



Raviny 10–60 × 1.0–1.5 sm, voloina



Tokan-drantsana, 5–18 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 0–15 mm



Tropika, 0–200 m



Anamboarana lafarinina, mofo, labiera, haingon-trano



Tsy misy fanamarihana



Annual, caespitose



Leaf blades 10–60 × 1.0–1.5 cm, pubescent



Racemes 1, 5–18 cm long



Spikelets solitary, fertile spikelets sessile, 0–15 mm long



Tropics, 0–200 m



Flour, bread, beer, ornaments



No notes



MV



KEW



KEW

## *Urelytrum agropyroides* (Hack.) Hack.

Raoma



Velona mandavantaona, mamondrona, mijoro mahitsy



Raviny 10–40 × 0.10–0.60 sm, malama



Rantsana tokana na miaraka tsiroaroa, 8–25 sm



Akotry miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy 7–10 mm



Afrika, Madagasikara, 500–1800 m



Haingo-trano



Tsy misy fanamarihana



Perennial, caespitose, culms erect



Leaf blades 10–40 × 0.10–0.60 cm, glabrous



Racemes single or paired, 8–25 cm long



Spikelets in pairs, fertile spikelets sessile, 7–10 mm long



Africa, Madagascar, 500–1,800 m



Ornamental plant



No notes



MV



MV



MV



MV



# *Urochloa arrecta* (Hack. ex T.Durand & Schinz) Morrone & Zuloaga

Osaosaberavina, Pikombalala



Velona mandavantaona, taho mivoivoy



Raviny 5–25 × 0.50–1.5 sm, malama



Rantsana 4–15, mitsiry manaraka ny tahony, 1–10 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3–4.3 mm



Afrika, Madagasikara, 1000–1700 m



Vilo-maitso



Voarakitra ao amin'ny Vorontsova 2022



Perennial, culms rambling



Leaf blades 5–25 × 0.50–1.5 cm, glabrous



Racemes 4–15, borne along a central axis, 1–10 cm long



Spikelets solitary, fertile spikelets sessile, 3–4.3 mm long



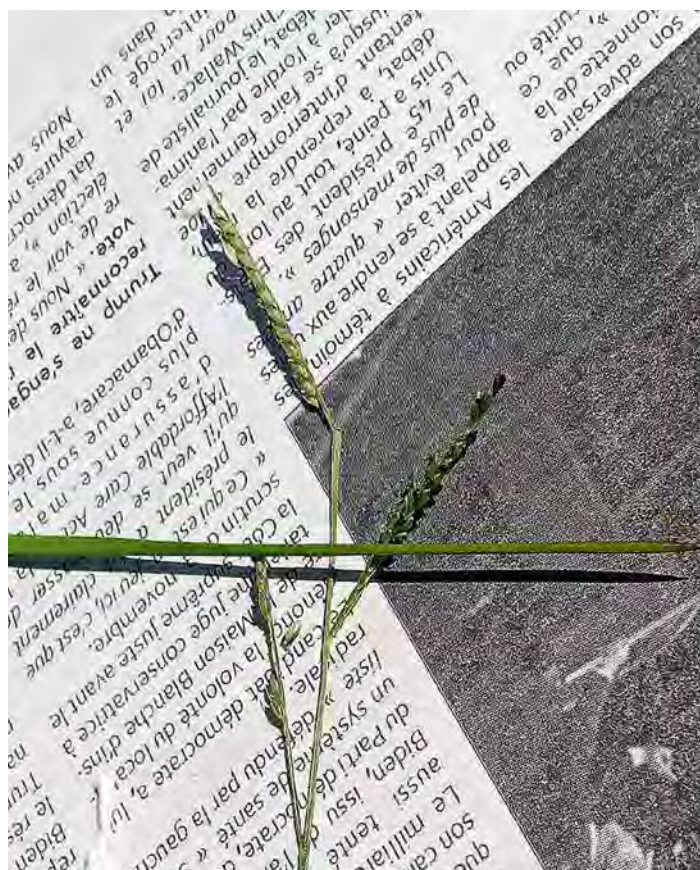
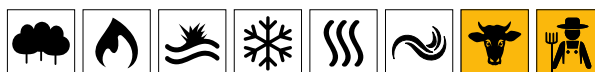
Africa, Madagascar, 1,000–1,700 m



Green fodder



Information in Vorontsova 2022



DFLN22



DFLN22



# *Urochloa brizantha* (A.Rich.) R.D.Webster

Tsy Fantatra



Velona mandavantaona, mamondrona, taho mijoro mahitsy na mihilana



Raviny 10–100 × 0.30–2 sm, malama



Rantsana (1–)2–16, mitsiry manaraka ny tahony, 4–20 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4–6 mm



Tropika, 800–1600 m



Vilo-maitso



Voarakitra ao amin'ny Vorontsova 2022



Perennial, caespitose, culms erect or ascending



Leaf blades 10–100 × 0.30–2 cm, glabrous



Racemes (1–)2–16, borne along a central axis, 4–20 cm long



Spikelets solitary, fertile spikelets sessile, 4–6 mm long



Tropics, 800–1,600 m



Green fodder



Information in Vorontsova 2022



MV



FMN23



MV



MV



FR



## *Urochloa deflexa* (Schumach.) H.Scholz

Ahipody, Ahipotsy, Mamakihoho



Mitsiry isan-taona, mamondrona, taho mihilana



Annual, caespitose, culms ascending



Raviny 4–25 × 0.40–2.2 sm, malama



Leaf blades 4–25 × 0.40–2.2 cm, glabrous



Rantsana 7–15, mitsiry manaraka ny tahony, 2–10 sm



Racemes 7–15, borne along a central axis, 2–10 cm long



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.5–3.5 mm



Spikelets in pairs, fertile spikelets pedicelled, 2.5–3.5 mm long



Tropika, 0–1300 m



Tropics, 0–1,300 m



Tsy misy voarakitra



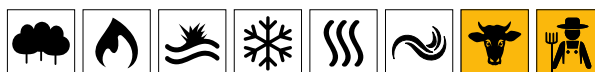
None recorded



Voarakitra ao amin'ny Vorontsova 2022



Information in Vorontsova 2022



MV



MV



MV

# *Urochloa distachyos* (L.) T.Q.Nguyen

Ahipisaka



Mitsiry isan-taona, mandrafitra tsihy, taho matory



Raviny 2–8 × 0.30–0.70 sm, malama



Rantsana 2–3, mitsiry manaraka ny tahony, 1–3 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 2.4–3 mm



Tropika, 0–600 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, mat forming, culms prostrate



Leaf blades 2–8 × 0.30–0.70 cm, glabrous



Racemes 2–3, borne along a central axis, 1–3 cm long



Spikelets solitary, fertile spikelets sessile, 2.4–3 mm long



Tropics, 0–600 m



None recorded



Information in Vorontsova 2022



FR



FR



FR



FR



## *Urochloa eminii* (Mez) Davidse

Tsy Fantatra



Mitsiry isan-taona, mamondrona



Raviny 5–30 × 0.50–1.7 sm, malama



Rantsana 3–10, mitsiry manaraka ny tahony, 3–7 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 3.5–4.5 mm



Afrika, Madagasikara, 0–600 m



Vilona



Voarakitra ao amin'ny Vorontsova 2022



Annual, caespitose



Leaf blades 5–30 × 0.50–1.7 cm, glabrous



Racemes 3–10, borne along a central axis, 3–7 cm long



Spikelets solitary, fertile spikelets sessile, 3.5–4.5 mm long



Africa, Madagascar, 0–600 m



Forage



Information in Vorontsova 2022



FR



FR



FR



FR



FR



FR

# *Urochloa glumaris* (Trin.) Veldkamp

Tsy Fantatra



Mitsiry isan-taona, taho mijoro mahitsy na mihilana



Raviny 5–20 × 0.30–0.80 sm, voloina



Rantsana 3–4, mitsiry manaraka ny tahony, 2.5–6 sm



Akotry mitsitokatokana na miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 3.5–4 mm



Tropika, 0–150 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, culms erect or ascending



Leaf blades 5–20 × 0.30–0.80 cm, pilose



Racemes 3–4, borne along a central axis, 2.5–6 cm long



Spikelets solitary or in pairs, fertile spikelets sessile and pedicelled, 3.5–4 mm long



Tropics, 0–150 m



None recorded



Information in Vorontsova 2022



FR



FR



FR



FR



FR



*Urochloa humbertiana* (A. Camus) Voronts.

Tsy Fantatra

 Velona mandavantaona, mamondrona, rizoma fohy, taho mihilana

 Raviny 3–10 × 0.10–0.50 sm, malama na voloina

 Rantsana 3–8, mitsiry manaraka ny tahony, 2–6 sm

 Akotry mitsitokatokana na miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2–3 mm

 Madagasikara, 0–750 m

 Tsy misy voarakitra

 Voaraikitra ao amin'ny Vorontsova 2022

 Perennial, caespitose, rhizomes short, woody, culms ascending

 Leaf blades 3–10 × 0.10–0.50 cm, glabrous or pilose

 Racemes 3–8, borne along a central axis, 2–6 cm long

 Spikelets solitary or in pairs, fertile spikelets pedicelled, 2–3 mm long

 Madagascar, 0–750 m

 None recorded

 Information in Vorontsova 2022



ER

ER

## *Urochloa maxima* (Jacq.) R.D. Webster

Ahitsy, Famoà, Fantaka, Verotsangana



Velona mandavantaona na velona isa-taona, mamondrona, rizoma fohy, taho mijoro mahitsy na mihilana



Raviny 12–40 × 1.2–3.5 sm, malama na voloina



Sampana mivelatra, 12–45(–60) sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 3–4.5 mm



Tropika, 0–1500 m



Ny ravina voatanika sy handroana manasitranana soritraretin'ny gripa, ny tambavy manasitrana ny aretin'aty



Mahazatra; voarakitra ao amin'ny Vorontsova 2022



Perennial or annual, caespitose, rhizomes short, culms erect or ascending



Leaf blades 12–40 × 1.2–3.5 cm, glabrous, pubescent or pilose



Panicle open, 12–45(–60) cm long



Spikelets solitary, fertile spikelets pedicelled, 3–4.5 mm long



Tropics, 0–1,500 m



Steam baths of leaves treat flu and neurological conditions, decoction against liver diseases



Common; Information in Vorontsova 2022



FR



FR



FR



FR



## *Urochloa mutica* (Forssk.) T.Q.Nguyen

Tsy Fantatra



Velona mandavantaona, taho mivoivoy



Raviny 6–30 × 0.30–1.5 sm, malama



Rantsana 5–20, mitsiry manaraka ny tahony, 2–10 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 2.5–3.5 mm



Tropika, 0–150 m



Vilo-maitso



Voarakitra ao amin'ny Vorontsova 2022



Perennial, culms rambling



Leaf blades 6–30 × 0.30–1.5 cm, glabrous



Racemes 5–20, borne along a central axis, 2–10 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 2.5–3.5 mm long



Tropics, 0–150 m



Green fodder



Information in Vorontsova 2022



FR



FR



FR



FR

## *Urochloa panicoides* P.Beauv.

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana na mitolefika



Raviny 2–25 × 0.50–1.8 sm, malama na voloina



Rantsana 2–7(–10), mitsiry manaraka ny tahony, 1–7 sm



Akotry mitsitokatokana na miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 3.5–4.5 mm



Tropika, 0–150 m



Tsy misy voarakitra



Voaraitra ao amin'ny Vorontsova 2022



Annual, caespitose, culms ascending or decumbent



Leaf blades 2–25 × 0.50–1.8 cm, glabrous or pubescent



Racemes 2–7(–10), borne along a central axis, 1–7 cm long



Spikelets solitary or in pairs, fertile spikelets sessile and pedicelled, 3.5–4.5 mm long



Tropics, 0–150 m



None recorded



Information in Vorontsova 2022



FR



FR



ER



FR



# *Urochloa plantaginea* (Link) R.D.Webster

Tsy Fantatra



Mitsiry isan-taona, taho mitolefika



Raviny 4–21 × 0.60–1.3 sm, malama na voloina



Rantsana 2–8, mitsiry manaraka ny tahony, 2–11 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy



Tropika, 0–200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, culms decumbent



Leaf blades 4–21 × 0.60–1.3 cm, glabrous or pubescent



Racemes 2–8, borne along a central axis, 2–11 cm long



Spikelets solitary, fertile spikelets pedicelled



Tropics, 0–200 m



None recorded



Information in Vorontsova 2022



FR



FR



FR



FR



FR

## *Urochloa pseudodichotoma* (Boss.) Voronts.

Tsy Fantatra



Mitsiry isan-taona, misy ladina, mandady, taho matory



Raviny 8–20 × 0.25–0.35 sm, malama



Rantsana 1–2, tokana na miaraka tsiroaroa, 1–1.5 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–2.5 mm



Madagasikara, 0–200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, stolons present, culms prostrate



Leaf blades 8–20 × 0.25–0.35 cm, glabrous



Racemes 1–2, single or paired, 1–1.5 cm long



Spikelets solitary, fertile spikelets pedicelled, 2–2.5 mm long



Madagascar, 0–200 m



None recorded



Information in Vorontsova 2022



MV



MV



## *Urochloa ramosa* (L.) T.Q.Nguyen

Tsy Fantatra



Mitsiry isan-taona, mamondrona



Raviny 2–25 × 0.40–1.4 sm, malama



Rantsana 3–15, mitsiry manaraka ny tahony, 1–8 sm



Akotry miaraka tsiroaroa, izay misy tangozana ihany no mamoa, mirefy 2.5–3.5 mm



Tropika, 0–1200 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, caespitose



Leaf blades 2–25 × 0.40–1.4 cm, glabrous



Racemes 3–15, borne along a central axis, 1–8 cm long



Spikelets in pairs, fertile spikelets pedicelled, 2.5–3.5 mm long



Tropics, 0–1,200 m



None recorded



Information in Vorontsova 2022



FR



FR



FR



FR



FR

# *Urochloa reptans* (L.) Stapf

Mamakihoho



Mitsiry isan-taona, taho mitolefika



Raviny 2–8 × 0.30–1.5 sm, malama



Rantsana 5–15, mitsiry manaraka ny tahony, 1–4 sm



Akotry miaraka tsiroaroa, mamoa avokoa na ny misy na ny tsy misy tangozana, mirefy 1.5–2.2 mm



Tropika, 0–300 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova 2022



Annual, culms decumbent



Leaf blades 2–8 × 0.30–1.5 cm, glabrous



Racemes 5–15, borne along a central axis, 1–4 cm long



Spikelets in pairs, fertile spikelets sessile and pedicelled, 1.5–2.2 mm long



Tropics, 0–300 m



None recorded



Information in Vorontsova 2022



FR



MV



FR



FR



## *Urochloa trichopus* (Hochst.) Stapf

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mihilana



Raviny 5–30 × 0.50–2 sm, malama na voloina



Rantsana 3–20, mitsiry manaraka ny tahony, 1–14 sm



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5–5.5 mm



Tropika, 0–1500 m



Vilona



Voarakitra ao amin'ny Vorontsova 2022



Annual, caespitose, culms ascending



Leaf blades 5–30 × 0.50–2 cm, glabrous or hispid



Racemes 3–20, borne along a central axis, 1–14 cm long



Spikelets solitary, fertile spikelets pedicelled, 2.5–5.5 mm long



Tropics, 0–1,500 m



Forage



Information in Vorontsova 2022



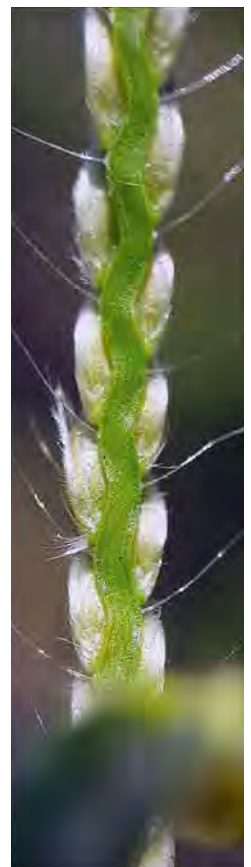
FR



FR



FR



FR

# *Viguierella madagascariensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, mamondrona, taho mitolefika



Raviny 2–6 × 0.20–0.30 sm, malama



Tokan-drantsana, 2–7 sm



Akotry mitsitokatokana, izay tsy misy tangozana no mamoa, mirefy 4–6 mm



Madagasikara, 0–500 m



Tsy misy voarakitra



Voarakitra ao amin'ny Vorontsova & Rakotoarisoa 2014



Annual, caespitose, culms decumbent



Leaf blades 2–6 × 0.20–0.30 cm, glabrous



Racemes 1, 2–7 cm long



Spikelets solitary, fertile spikelets sessile, 4–6 mm long



Madagascar, 0–500 m



None recorded



Information in Vorontsova & Rakotoarisoa 2014



MV



MV



MV



MV



## *Yvesia madagascariensis* A.Camus

Tsy Fantatra



Mitsiry isan-taona, taho mijoro mahitsy na mihilana



Annual, culms erect or ascending



Raviny 1–2 × 0.30–0.35 sm, malama



Leaf blades 1–2 cm × 0.30–0.35 cm, glabrous



Rantsana 3–5, misamaka, 1–2 sm



Racemes 3–5, digitate, 1–2 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2.5 mm



Spikelets solitary, fertile spikelets pedicelled, 2.5 mm long



Madagasikara, 0–1000 m



Madagascar, 0–1,000 m



Tsy misy voarakitra



None recorded



Voarakitra ao amin'ny Vorontsova & Rakotoarisoa 2014



Information in Vorontsova & Rakotoarisoa 2014



MV



RB



RB



MV

## *Zea mays* L.

Baby, Batribatry, Katsabato, Katsabotso, Katsaka, Sako, Tsako, Tsakotsako, Tsatsako, Tsinjaza



Mitsiry isan-taona, mijoro mahitsy



Raviny 25–100 × 2–10 sm, malama



Tokan-dratsana



Akotry milentika amin'ny rantsany, miaraka tsiroaroa, izay tsy misy tangozana no mamoa, mirefy



Tropika, 0–3000 m



Sakafon'olombelona sy biby fiompy, fanamboarana labiera



Mahazatra



Annual, culms erect



Leaf blades 25–100 × 2–10 cm, glabrous



Racemes single



Spikelets sunken, in pairs, fertile spikelets sessile



Tropics, 0–3,000 m



Human and cattle food including beer



Common



FR



FR



FR



FR



FR



## *Zoysia matrella* (L.) Merr.

Ahitrombilahy, Horompotsy, Tsindrondrotra



Velona mandavantaona, mandrafitra tsihy, rizoma lava, misy ladina, taho matory



Perennial, mat forming, rhizomes elongated, stolons present, culms prostrate



Raviny 2–10 × 0.10–0.30 cm, malama



Leaf blades 2–10 × 0.10–0.30 cm, glabrous



Tokan-drantsana, 0.6–3.5 cm



Racemes single, 0.6–3.5 cm long



Akotry mitsitokatokana, izay misy tangozana ihany no mamoa, mirefy 2–3.5 mm



Spikelets solitary, fertile spikelets pedicelled, 2–3.5 mm long



Tropika, 0–500 m



Tropics, 0–500 m



Tsy misy voarakitra



None recorded



Tsy misy fanamarihana



No notes



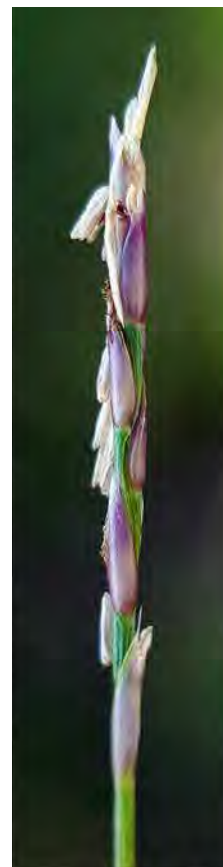
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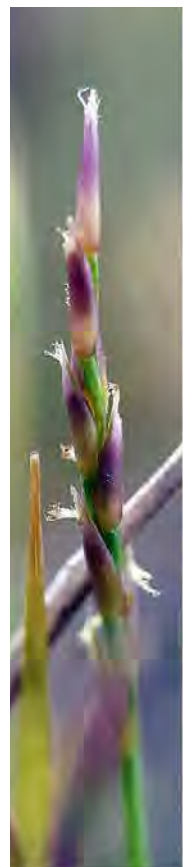
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## FANOROANA IREO ANARANA SIANTIFIKA

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Ireo anarana latina (na siantifika) nomena ireo karazam-bozaka Malagasy ireo dia mety hiteraka tsy fahazoan-kevitra satria misy karazam-bozaka tokana anefa manana anarana samihafa izay niova nanaraka ny fotoana. Ny anarana latina ampiasaina anatin'ity boky ity dia izay anarana farany indrindra nivoaka talohan'ny fotoana nanontana ny boky.

Tanisaina eo amin'ny lisitra etsy ambany ireo anarana latina fiantsoana matetika ireo karazam-bozaka ireo mba hanehoana ireo anarana samihafa nomena azy taloha, sy mba hanehoana mazava ireo karazany voarakitra marina anatin'ny boky. Ny marika mitovy (=) dia manondro ny anarany taloha sy ny pejy ahitana ny anarany vaovao. Ny tsipika (–) kosa dia entina milaza fa tsy voarakitra anatin'ny boky ilay karazana voakasika.

Latin names of Malagasy grasses can be confusing because many alternative names have been applied to the same species over time. This book uses the latest Latin plant names at the time of going to press.

In the list below we include as many commonly used Latin names as possible, to indicate the synonyms of modern names, and to clarify which species are included in the book. **Bold** font indicates accepted names. An equals sign (=) and *italic* font indicates synonyms and page numbers of their modern equivalents. A dash (–) indicates that the species is not included in this book.

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