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New technologies for sharing and disseminating knowledge on tropical weeds for better management of pastures: the WIKTROP collaborative portal

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Joint XXIV International Grassland and XI International Rangeland Virtual Congress 2021

New technologies for sharing and disseminating knowledge on tropical weeds for better management of pastures: the WIKTROP collaborative portal

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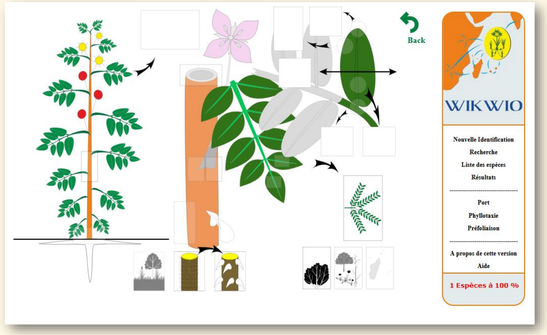
In tropical pastures, weeds are a significant threat and their control is an important issue depending in their ecological and economic impacts.

From exhaustive information on weed species, their behavior and their control, farmers can elaborate better strategies for pasture management and weed control

Plants that appear spontaneously in pastures can be native or exotic, can be harmful or/and beneficial depending on the point of view (agricultural, medicinal, food...) and its abundance. How can farmers access information on identitfying and managing weeds? Is it necessary to eradicate or reduce the population of a particular species? Can farmers make knowledge-based decisions on the disadvantages and benefits of each species? WIKTROP aims to empower support farmers through free access to information and knowledge on weeds.

Wiktrop – IDAO identification system
Help identification by building the robot portrait of the plant

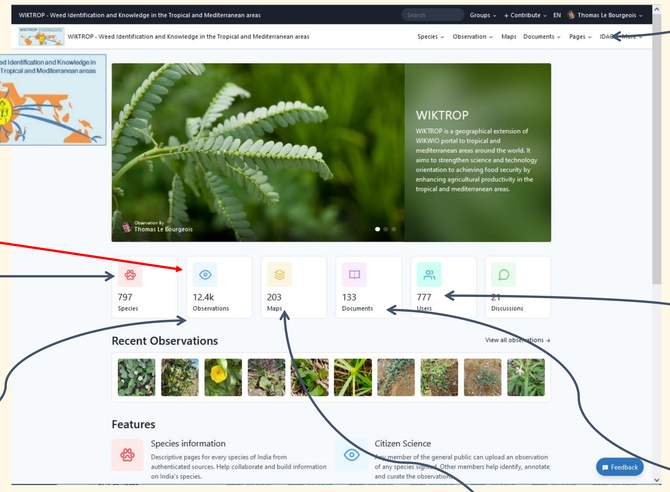


Identifying the weed with Wiktrop-IDAO, a robot portrait system

Taking pictures of the weed with Wiktrop app.

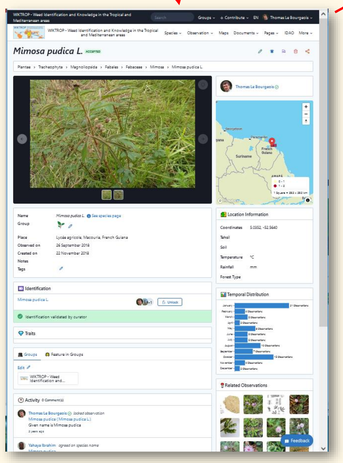
Mimosa pudica L.

Posting observations to the Wiktrop collaborative portal

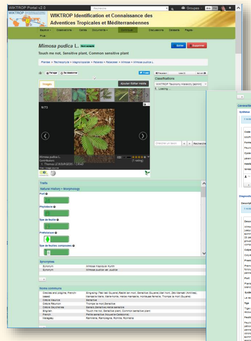


http://portal.wiktrop.org

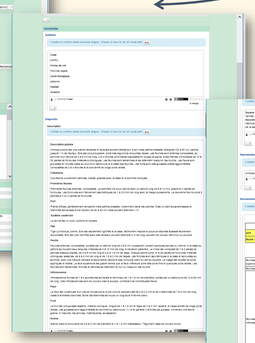
769 Members (scientists, agronomists, lecturers, technicians, students, farmers)
31 450 Visitors

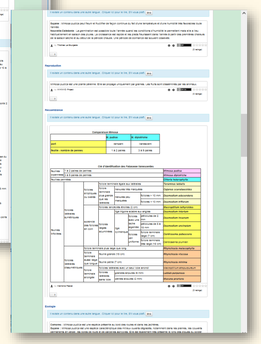


797 Species pages with details on
Taxonomy
Botanical description
Ecologie
Biologie
Distribution
Harmfulness
Control
References

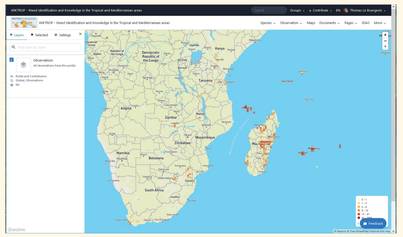


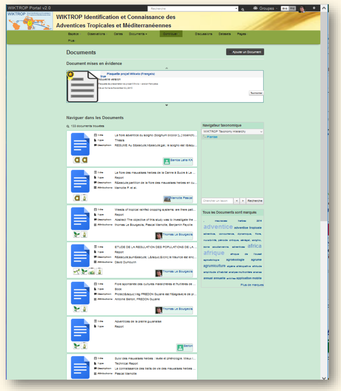
12 412 Observations
1 039 Species
45 758 Images





Mapping of observations, with different map layers





133 Documents on weed science and weed management shared (technical, scientifical, protocols, theses...)