## Lexys

Legume selection software

## Introduction

- Conceived and developed by IITA with NARS and IARC collaborators in West and Central Africa
- interested in integrating legumes into farming systems
- Computerized database –scientific names
- 113 tropical herbaceous & shrub legume species, & a small number of woody legumes and tropical crops\*grain legumes captured
- Legume CHOICE market
- *Criteria* for database search; ecological adaptability, cropping system niche, contributions, pest problems, trap crops.
- Download available LEXSYS,
- https://www.bangor.ac.uk/senrgy/staff/mcdonald.php.en

## Criteria description

Ecological adaptability: Precipitation, altitude, temperature, pH range, drought tolerance, fertility requirement, soil type, water logging

System niche: morphology, growth type, life cycle, initial growth rate, productive growth rate

Contribution: Vegetable, grain yield, green fodder yield, hay yield, soil carbon, reduction of soil erosion, weed suppression, avoid toxicity

Pest problems (not susceptible to): diseases, insect pests, viruses, nematodes, parasitic weeds

Trap crops: parasitic, nematodes

## Other features

- Browse species: simple
- Limitation: some species have no data in the data base