

# WORKING FOR A WATER AND FOOD SECURE WORLD



## ASSESSING THE WATER RESOURCES POTENTIAL FOR IRRIGATED AGRICULTURE IN WESTERN BAHIA, BRAZIL

A new set of collaborative research projects is underway between the Association of Farmers and Irrigators of Bahia (AIBA), the Federal Universities of Viçosa and Rio de Janeiro (UFV and UFRJ), the State Government of Bahia and the Daugherty Water for Food Global Institute at the University of Nebraska (DWFI/University of Nebraska-Lincoln), USA. The study has four objectives:

- ▶ Hydrogeological modeling to define the sustainable use of the aquifer system Urucuia
- ▶ Assessment of surface water availability in the Grande, Corrente and Carinhanha river basins
- ▶ Land use change and assessment of soil carbon sequestration in irrigated areas in the Western Bahia
- ▶ Development, test and economic evaluation of hydroclimatic forecasting systems for water, food and energy security in Western Bahia

### Nebraska delegation visits Bahia, Brazil

In February 2018, a Nebraska delegation traveled to the state of Bahia to attend meetings, visits and seminars, attended by more than 300 professionals representing 110 organizations from different sectors. The overall objective was to contribute to the improvement of water resources governance in Western Bahia and to share the successful experiences and challenges of water management for irrigated agriculture in Nebraska and Bahia.



Nebraska delegation members visit a soybean farm in Western Bahia.

### Main project partners





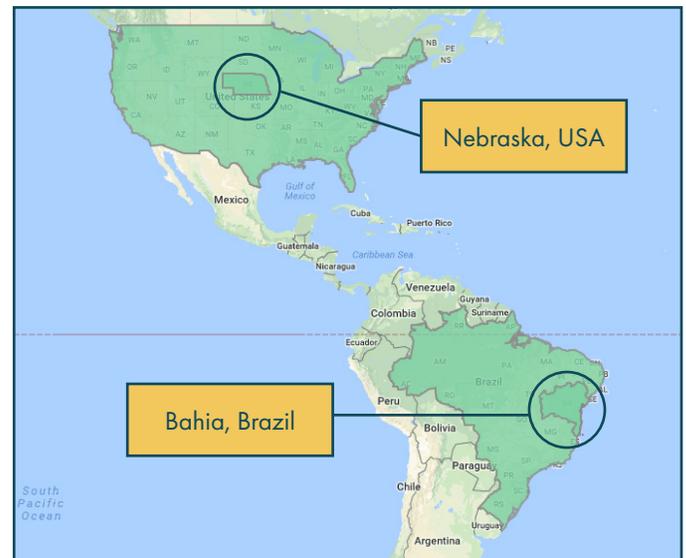
## RESULTS

As a result of the activities, the following joint projects are being discussed:

- ▶ Modeling and discussion of water resources monitoring systems for Western Bahia
- ▶ Discussion and proposition of governance models of water resources for the Western Bahia
- ▶ Capacity building for professionals on sustainable water resources management
- ▶ Implementation of projects for the development of family agriculture using irrigation in the “Vale” region of Western Bahia

## WHERE IN THE WORLD

Nebraska, USA and Bahia, Brazil



For further information, please visit  
[agroplusufv.com.br/projeto-urucuia](http://agroplusufv.com.br/projeto-urucuia)  
 or [waterforfood.nebraska.edu](http://waterforfood.nebraska.edu)

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