University : Al-Mustaqbal University (formerly name: Al-Mustaqbal University College)
Country : Iraq
Web Address : https://uomus.edu.iq/en/default.aspx

6.3.5: Water-conscious planting, Year: in place by 2023: Plant landscapes to minimise water usage. (e.g. use drought-tolerant plants)

Link to the public evidence:
https://sustainability.uomus.edu.iq/SDG_Hub/Goals/6

1- *Planting drought-tolerant plants, please refer to the following links (Please note that a number of these activities were written in Arabic):*
https://sustainability.uomus.edu.iq/News/details/102
https://uomus.edu.iq/NewCol.aspx?newid=26979
https://uomus.edu.iq/NewCol.aspx?newid=62159
https://sustainability.uomus.edu.iq/News/Details/62
https://sustainability.uomus.edu.iq/News/Details/118
https://uomus.edu.iq/ArSustainability/Arabicdetilsnews.aspx?Id=61
https://uomus.edu.iq/ArSustainability/Arabicdetilsnews.aspx?Id=55

Also, as part of its commitment to being an eco-friendly university and serving the community, the university has carried out numerous activities with the same purpose mentioned above, On-campus and off-campus, The details of this activity can be accessed via the following QR codes:

In fact, the university's shift toward eco-friendly agriculture—through planting environmentally friendly, low-water-consuming, and drought-tolerant plants—has helped reduce the annual water consumption allocated for irrigation across all university areas from **120 cubic meters in 2020** to **44 cubic meters in 2024,** as shown in Figure 1.

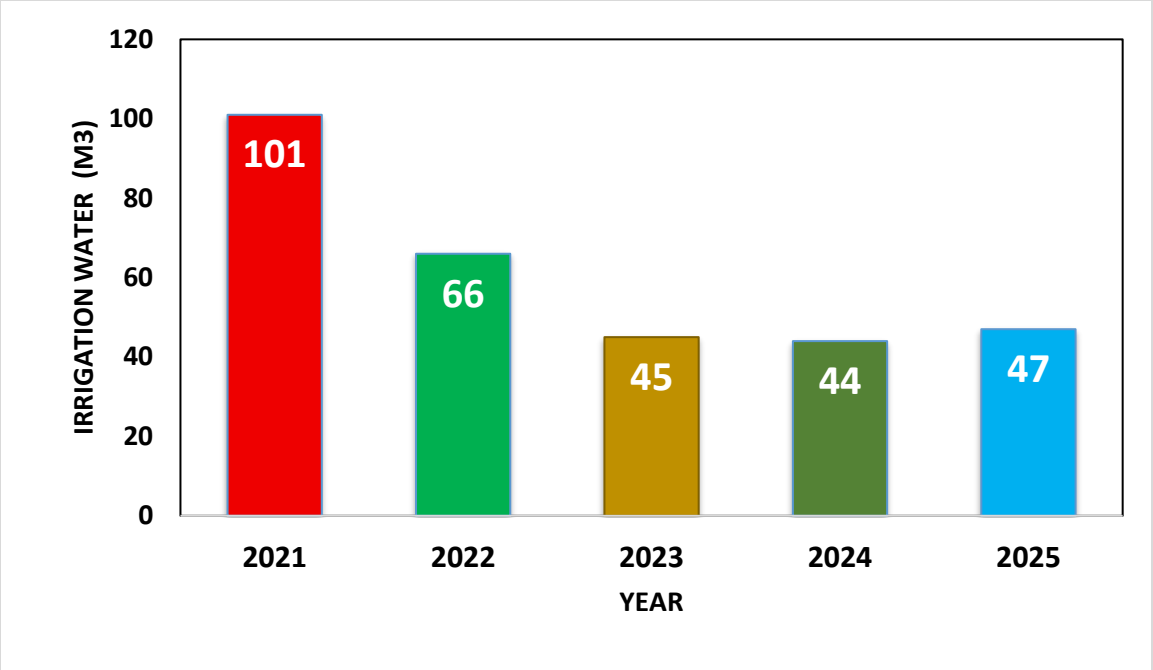


Figure 1: Water consumption for irrigation (m^3).

In addition, Al-Mustaqbal University has supported several research projects under my supervision, particularly those addressing water management and sustainability. Among them is the recent project "The Role of Universities in Facing the Challenges of Climate Change " (Final Report), which focused on mitigating the impacts of climate change on water resources. Through these efforts, Al-Mustaqbal University has prioritized practical solutions and awareness campaigns aimed at reducing the severity of climate-related challenges and promoting sustainable water use within educational and local communities.

The table below shows the number and types of plants and trees targeted for cultivation at the university in 2024.

	Percentage	Number	Kind	No.
	%16.0	30000	Shrubs	**1**
	%26.7	50000	Ornamental plants	**2**
	%0.8	1500	Palm trees	**3**
	%5.3	10000	Tropical trees	**4**
	%16.0	30000	Fruit-bearing trees	**5**
	%5.3	10000	Medicinal plants	**6**
	%29.9	56000	Vegetable crops	**7**
	**187500**		**Total**	

2- Advanced Hydroponic Farming Project

The hydroponic farming project covers an area of approximately **50 square meters** and consists of **7 panels (water pipes)**. Each panel has openings designed to hold plants in special cups filled with specific soil, with holes that allow the roots to reach the water inside the pipe. Each pipe accommodates **7 plants**, with a total of **70 seedlings** growing inside the system, which relies on water recycling and reuse.

Project Benefits

- Higher productivity: Efficient crop yields in limited spaces.
- Water conservation: Significant reduction in water use.
- Local impact: Supports local economy and creates jobs.

For more information

3- Policy and Water Neutrality Goal by 2030

All sections of this policy "Climate Action Policy of Al-Mustaqbal University " can be viewed through the following link:

https://sustainability.uomus.edu.iq/Policies/details/1

This policy is adopted by the university across all its departments, as it incorporates the Water Conservation & Management and Greener Campus & Biodiversity Enhancement policy.



4- Water Irrigation system

The university has also implemented a modern irrigation system for most of the agricultural and green areas on campus. The system primarily relies on drip and sprinkler irrigation, according to the specific needs (Figure 2).







Figure 2: Several photos show the irrigation system and plants of Al-Mustaqbal university

Furthermore, Al-Mustaqbal University is renowned for its extensive green areas and landscaping, which necessitate regular irrigation. To ensure efficient water use, the university has installed water meters that enable the engineering unit to monitor the performance of the sprinkler and drip irrigation systems used for these green spaces. This data-driven approach allows the university to optimize irrigation practices, minimizing water usage while maintaining the lush greenery across the campus (please see figure 3).



Figure 3: Two photos show the irrigation of agricultural lands and plants at the university.

All the above demonstrates that the water consumption process at the university is controlled, and overall consumption is monitored by the Water Authority of Babil Province, Iraq.