

Site: SRTA-City Research Farm. New Borg El-Arab City, Alexandria, Egypt

Crop: Quinoa – Opuntia



- **Climate:** Mediterranean semi-arid climate characterized by (Hot, dry summers, Mild winters with limited rainfall, Moderate coastal winds, High evapotranspiration rates)
- **Average altitudinal level:** Approximately 5–15 m above sea level
- **Average rainfall (last 10 years):** Approximately 100–150 mm/year
- **Soil characteristics:** Calcareous soils, Sandy Clay Loam texture, High calcium carbonate content, Low organic matter, Moderate salinity in some areas
- **Irrigation methods:** Drip irrigation system from Nile River source.

Interventions

- Harvesting methods and Quinoa grain processing will be facilitated as well as modification of existing harvesting equipment in the area;
- Adoption of Conservation Agriculture practices
- Minimum tillage;
- Results, agricultural practices and use of grain will be disseminated;
- Improvement of soil properties using organic amendments and biochar.

Monitoring of:

- Soil moisture
- Soil temperature
- Plant growth and productivity
- Evaluation of water use efficiency (WUE)
- Improvement of harvesting and post-harvest practices
- Conversion of crop residues into compost and vermicompost
- Documentation and dissemination of scientific and practical results

	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
QUI.												
OPU.	Planting: February – March - Perennial crop (long-term growth and productivity evaluation)											