

Economic Impacts of Extension Education

Meeting the Growing Demand for Water through Conservation Education

- Population growth, drought, and increasing water demands have added stress to Texas' water supply.
- Water demand in Texas is projected to increase by 17% between 2020 and 2070.
- The State Water Plan includes more than 5,500 water management strategies developed to balance the projected water demand and supply.
- Municipal water conservation is expected to account for approximately 7% of new water supplies by 2060. Part of this conservation will be achieved through education.
- In urban areas, about 25% of water use is attributable to landscape irrigation, and approximately 50% of irrigation water applied is lost due to inefficiencies and improper operation of irrigation systems.

AgriLife Extension's Response

- Earth-Kind[®] Landscaping uses researchproven techniques to provide maximum garden and landscape enjoyment while preserving and protecting the environment.
- The best organic and traditional gardening and landscaping principles are used to create a horticultural system based on real-world



effectiveness and environmental responsibility.

- Earth-Kind[®] Landscaping encourages (1) water conservation, (2) reduction of fertilizer and pesticide use, (3) landscaping for energy conservation, and (4) reduction of landscape wastes entering landfills.
- The program also focuses on (1) using native plant species to provide habitat and reduce water requirements and (2) minimizing the use of potentially harmful chemical fertilizers and pesticides.
- In 2019, Earth-Kind[®] reached more than 34,000 contacts through 156 educational events and other educational outreach efforts.

Economic Impacts

- Of the 23,000 Earth-Kind[®] participants since 2009 who completed the program evaluation, 34% indicated that they would adopt one or more water conservation practices, reducing their annual landscape water use by 14%.
- This reduction in landscape water use results in a potential annual savings of 5,000 gallons per household and 40.7 million gallons for all participants who responded. The estimated water cost savings to these users as a whole is \$148,000 per year, based on average municipal water rates.
- In addition, more than 10,000 participants anticipate a cost savings of \$193 per year, or \$1.9 million in total, associated with reducing their use of pesticides and fertilizers.
- The ultimate societal benefits to Texas are protection of the environment and a more efficient use of scarce water resources.

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