Water Quality Best Management Practices Series



Irrigation Water Management

What is Irrigation Water Management?

This best management practice (BMP) is the process of determining and controlling the volume, frequency and application rate of irrigation water in a planned, efficient manner.

What are the benefits of this practice?

- Manages soil moisture to promote desired crop response
- Optimizes use of available water supplies
- Minimizes irrigation-induced soil erosion
- Decrease nonpoint source pollution of surface and groundwater resources
- Manages salts in the crop root zone
- Manages air, soil or plant micro-climate

Where can this practice be applied?

- · To all irrigated lands
- Where site conditions (soil, slope, crop grown, climate, water quantity and quality, etc) are present and capable of applying water to meet the intended purposes





Agriculture in the Arroyo Colorado Watershed

The Arroyo Colorado Watershed is 706 square miles and runs from McAllen to the Lower Laguna Madre. The water body is impaired for dissolved oxygen, bacteria and legacy pollutants. In 2007, local stakeholders developed and published A Watershed Protection Plan for the Arroyo Colorado Phase I that identifies strategies to address water quality issues. The plan is currently being implemented throughout the watershed.

Agricultural production comprises almost half of the land within the Arroyo Colorado Watershed. A goal of the watershed protection plan is to have best management practices implemented on half of the irrigated agricultural lands by 2015. Runoff from these agricultural lands carries nutrients and sediments, which contribute to the above impairments in the Arroyo Colorado.

Be a part of conserving this precious natural resource by adopting a BMP and lessen the impacts of agriculture on water quality.





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What can you do and who should you contact?

The Texas State Soil and Water Conservation Board (TSSWCB) and the USDA Natural Resources Conservation Service (NRCS) have multiple programs that offer technical and financial assistance to agricultural producers to implement BMPs on their farm.

Environmental Quality Incentives Program (EQIP), offered by NRCS, is an annual program with specific time frames and registration periods.

TSSWCB offers assistance through its Water Quality Management Plan (WQMP) Program. A WQMP is a voluntary site-specific plan developed by local Soil and Water Conservation Districts for producers that includes land and production practices as well as management measures. Both WQMPs and EQIP are designed to reduce nonpoint source pollution and provide cost share assistance.

If you have questions, you may also contact the Texas AgriLife Extension Service agent for your county.

Contacts

Serving Hidalgo County, Texas

Edinburg Service Center
2514 S Veterans Blvd
Edinburg, TX 78539
(956) 383-3002
Farm Service Agency
Natural Resources Conservation Service
Rural Development
Southmost Soil & Water Conservation District

Texas AgriLife Extension Service – Hidalgo County Mr. Brad F. Cowan County Extension Agent-Agriculture and Natural Resources 410 N 13th Ave Edinburg, TX 78541 (956) 383-1026 b-cowan@tamu.edu

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