

**Technology & Engineering**  
**Planning & Program Evaluation Logic Model (2009-2013)**

**Brief Program Summary**

The application of technology and engineering is very critical for achieving economical production while protecting and conserving natural resources and the environment. However, in most cases this application of technology is in support of the agricultural system in question and not a program of it self. Therefore the Technology & Engineering Program provides information on efforts not covered in other planned programs.

**ASSUMPTIONS**

Clientele will adopt and implement technology and engineering practices that are presented in a way that allows them to see the benefits that are derived. They are more likely to adopt practices that have been researched and effectively demonstrated on-farm under conditions that they feel are similar to their situation. Similarly, they relate better to the comments and experiences that others share related to practices that they tried on their farm. This program involves presenting information at meetings and through publications and web sites. It also includes working on-farm with the implementation of technology and engineering practices that improve Agricultural production and preserve and protect natural resources and the environment. Previous experiences from on-farm efforts show a much higher acceptance and adoption rate by the cooperating producer as well as the producers in the area. This is due to the opportunity that other producers have to gain more first hand knowledge of what is being done on a nearby farm similar to theirs. It is also the result of the information from the on-farm work being shared in educational meetings in a way that growers can see how it can apply to their farming operation. The on-farm approach also allows the investigators the opportunity to gain more experience in making adjustments that may be necessary due to the many variables involved with doing on-farm demonstrations.

Inputs Resources & Activities	If, then	Methods	If, then	Target Audience(s) Participation	If, then	Short-Term Impact	Medium-Term Impact	If, then	Long-Term Impact
<ul style="list-style-type: none"> <li>Conduct field tours, work shops, educational meetings and farm visits</li> <li>Produce publications and post information to web site</li> <li>Conduct on-farm demonstrations</li> <li>Develop and release CES decision support tools</li> <li>Conduct non-duplicated 4-H Youth technology and engineering programs</li> </ul>	➔	<b>Direct Methods</b> <ul style="list-style-type: none"> <li>Group Discussion</li> <li>Demonstrations</li> <li>One-on-One Intervention</li> <li>Workshop</li> <li>Education Class</li> </ul> <b>Indirect Methods</b> <ul style="list-style-type: none"> <li>Web sites</li> <li>Newsletters</li> </ul>	➔	<ul style="list-style-type: none"> <li>Row crop producers, livestock producers, poultry producers, landowners, consultants, pesticide applicators, agricultural agencies and businesses and other interested groups</li> <li>4-H Youth</li> </ul>	➔	<b>Indicators:</b> <ul style="list-style-type: none"> <li># of people who increased their knowledge after attending any CES sponsored educational meeting, field tour or on-farm demonstration addressing drainage and irrigation water management.</li> <li>Peer Reviewed Publications.</li> </ul>	<b>Indicators:</b> <ul style="list-style-type: none"> <li># of people who adopted or implemented a recommendation after attending any CES sponsored educational meeting, field tour or on-farm demonstration addressing drainage and irrigation water management.</li> </ul>	➔	<b>Indicators:</b> <ul style="list-style-type: none"> <li>Acres associated with practices for improved water management</li> </ul>

EXTERNAL INFLUENCES



**Data Collection Plan:**

- Who? ( will collect data & enter into AIMS or AES Survey)
- How? (survey method/instrument?)
- When? (When will the data be collected & entered?)