





**Technology & Engineering
Planning & Program Evaluation Logic Model 2008**

Inputs Resources & Activities	If, then	Methods	If, then	Target Audience(s) Participation	If, then	Short-Term Outcomes	Medium-Term Outcomes	If, then	Long-Term Outcomes
<ul style="list-style-type: none"> • Conduct field tours, work shops, educational meetings and farm visits • Produce publications and post information to web site • Conduct on-farm demonstrations • Develop and release CES decision support tools • Conduct non-duplicated 4-H Youth technology and engineering programs 	➔	<p><u>Direct Methods</u></p> <ul style="list-style-type: none"> • Group Discussion • Demonstrations • One-on-One Intervention • Workshop • Education Class <p><u>Indirect Methods</u></p> <ul style="list-style-type: none"> • Web sites • Newsletters 	➔	<ul style="list-style-type: none"> • Row crop producers, livestock producers, poultry producers, landowners, consultants, pesticide applicators, agricultural agencies and businesses and other interested groups • 4-H Youth 	➔	<p>Indicators:</p> <ul style="list-style-type: none"> • # of people who increased their knowledge after attending any CES sponsored educational meeting, field tour or on-farm demonstration addressing livestock and poultry manure management, drainage and irrigation water management, fertilizer and pesticide application or crop processing • # of county 4-H Tech Team members who increased their knowledge related to use of technology • # of participants in 4-H GPS and Nature Mapping program who increased their knowledge of careers that use GPS • % of participants enrolled in the 4- 	<p>Indicators:</p> <ul style="list-style-type: none"> • # of county 4-H Tech Team members who completed a community service project using technology • # of 4-H Journals completed in technology and engineering • # of 4-H Youth projects completed in technology and engineering • # of non-duplicated 4-H Youth participating in technology and engineering events • # of requests for CES software decision tools 	➔	<p>Indicators:</p> <ul style="list-style-type: none"> • Average water savings in % in MIRI fields • # of 4-H Youth awarded post secondary scholarships related to technology and engineering • % of participants enrolled in the 4-H GPS and Nature Mapping program that would consider a career in a technology field and/or in a field using GPS technology • Acres associated with any of the following water practices: measuring pump flow, multiple inlet irrigation, surge irrigation, irrigation scheduling, border irrigation, furrow irrigation with phaucet design

						<p>H GPS and Nature Mapping Program that used GPS for the first time during the program</p> <ul style="list-style-type: none"> • % of participants enrolled in the 4-H GPS and Nature Mapping program that reported learning enough about GPS during the program to use it on their own • % of participants enrolled in the 4-H GPS and Nature Mapping program that plan to use GPS again in the future • # of 4-H Youth participants who learned • # of 4-H Youth participants who learned "Wise Use of Resources"; life skill • # of 4-H Youth participants who learned "Decision Making"; life skill 			
EXTERNAL INFLUENCES									

Data Collection Plan:

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