

**Pest Management
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"> The University of Arkansas Division of Agriculture research program in pest management will reduce the impacts of major pests by: increasing the knowledge base on major pests, diseases, and weeds of importance to Arkansas; developing improved crop protection strategies and technologies for our major crop systems; and integrating new knowledge in plant and animal genomics and basic science into the development new pest management strategies. Our methods will include grower meetings, training extension agents and crop consultants, educational newsletters, Extension publications, visits to individual growers /homeowners, diagnosis of pest problems, newspaper/magazine /professional journal articles, interviews, field days, web-based information, and/or applied on- farm research. 	<p align="center">➔</p>	<p>Direct Methods</p> <ul style="list-style-type: none"> One-on-One Intervention Other 1 (On-Farm Research) Education Class Group Discussion Workshop Other 2 (Field Days/Diagnostic Services) Demonstrations <p>Indirect Methods</p> <ul style="list-style-type: none"> Public Service Announcement Other 1 (Scientific/Technical Publication) Other 2 (Grant Proposals/File Patents) Web sites Newsletters 	<p align="center">➔</p>	<ul style="list-style-type: none"> Crop producers Livestock producers Division of Agriculture personnel Agricultural consultants Agricultural industry personnel Pesticide applicators Pest Control Operators Homeowners Golf course superintendents Commercial pest management personnel Master gardeners Commercial landscapers Landscape management staff Public Health Officials Other researchers Students Extension Specialists Research Funding Personnel and Agencies Policy and Decision Makers Regulatory Personnel State Plant Board 	<p align="center">➔</p>	<p>Indicators:</p> <ul style="list-style-type: none"> # of participants becoming aware of IPM strategies # of participants intending to adopt IPM practices # of participants gaining knowledge of IPM practices # of participants gaining knowledge of proper pesticide application practices 	<p>Indicators:</p> <ul style="list-style-type: none"> Refereed Journal Publications # of producers adopting one or more IPM practices # of homeowners adopting one or more IPM practices # of participants adopting one or more proper pesticide application practices # of diagnostic submissions # of producers using computer-assisted programs # of clients using scouting programs # of clientele that have adopted IPM-related practices # of pest monitoring traps utilized 	<p align="center">➔</p>	<p>Indicators:</p> <ul style="list-style-type: none"> # of participants passing commercial pesticide certification exams # of business start ups Annual soybean yield - bushels per acre Annual value of soybean production (1,000 Dollars) Annual rice (all) yield -- pounds per acre Annual value of rice (all) production (1,000 dollars) Annual cotton (all) yield -- pounds per acre % of soybean acreage receiving herbicide applications Pounds (1,000) of herbicides applied to planted soybean acreage % of soybean acreage receiving insecticide applications Pounds (1,000)

<ul style="list-style-type: none"> • Extension Pest Management education will be delivered through the following programs and methods, targeting issues specific to Arkansas: <ul style="list-style-type: none"> ○ The Cotton Nematode and Disease Management Program supports and assists county extension programs in the state, particularly the Delta region to better identify, understand, and manage major cotton diseases in Arkansas. ○ The Pesticide Applicator Training Program provides initial certification and recertification training sessions for private and commercial/non-commercial pesticide applicators statewide each year. County agricultural Extension agents provide the training for private applicators (farmers), and the pesticide assessment specialist is responsible for training the 				<p>Personnel</p> <ul style="list-style-type: none"> • General Public 					<ul style="list-style-type: none"> • of insecticides applied to planted soybean acreage • % of soybean acreage receiving fungicide applications • Pounds (1,000) of fungicides applied to planted soybean acreage
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<p>commercial/non-commercial applicators.</p> <ul style="list-style-type: none"> ○ The Cotton, Rice and Soybean IPM Programs offer simple grant funding for county extension education efforts focused primarily on integrated pest management of cotton, rice and soybean pests. County extension education efforts are aimed at improving crop production and pest management through adoption of research-based recommendations. ○ The Rice, Soybean, and Wheat Pathology Programs assist county extension programs to educate growers and others involved to better identify, understand and manage the many rice, soybean, and wheat diseases in Arkansas. ○ The Soybean Cultivar Disease Screening Program assists soybean producers in selecting the most appropriate soybean cultivars 									
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<p>for their farms to avoid costly losses from soybean diseases and nematodes.</p> <ul style="list-style-type: none"> ○ As part of the Diversified IPM Program, urban and commercial horticulture educational programs are delivered to train urban and commercial vegetable, ornamental, turf and fruit clientele in pest and plant disease management practices. ○ Human Integrated Pest Management will develop sound recommendations for IPM targeting pests affecting humans, and to deliver the recommendations to a variety of sectors of the public. Pests to be targeted include Africanized bees, termites, and fire ants in residential settings. Delivery methods include presentations at educational meetings and workshops, extension publications and 									
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