LOGIC MODEL

Name of Program: Field Crops

Situation: To support decision-making by farmers in the production, harvest, and storage of agronomic crops, including corn, soybeans, wheat, hay/forage, and other field crops.

<u>Goal</u>: To enhance Indiana Stakeholders' understanding of crop production issues; and to support decision -making by farmers in the production, harvest, and storage of agronomic crops, including corn, soybeans, wheat, hay/forage, and other field crops.

INPUTS	OUTPUTS	OUTPUTS	Short: What do we think	Medium: How do we think the	Long: What kind of impact can
What we invest	Activities	Participation	participants will know, feel, or	participants will behave or act	result if the participants behave
	What we do	Who is reached	be able to do after participating	differently after participating in the	or act differently after
 Field staff 			in the program?	program?	participating in the program?
 Campusstaff 	 Purdue Ag Center Field 	 Agricultural 			
 Purdue 	Days	producers/	 FIELD 1.1 # of participants 	 FIELD 2.1 # of participants who self- 	 FIELD 3.1 # of reduction in
Agricultural	 Educational 	farmers	informed about field crops	report that they adopted a	pesticide spills or drift complaints
Centers (PACs)	Workshops &	 Commercial 	 FIELD 1.2 # of youth informed 	recommended practice for their	 FIELD 3.2 # of producers
 Sustainable 	Conferences	Agrichemical	about field crops	operation	indicating increased dollar returns
Agriculture	 On-farm research 	(Fertilizer and	 FIELD 1.3 # of participants 	 FIELD 2.2 # of participants who self- 	per acre and/or reduced costs per
Research and	 Programs in Pesticides 	Pesticide)	informed about crop production	report that they adopted fertilizer	acre due to adopted agronomic
Education	–PARP, CCH	Applicators	issues	and pesticide recommendations for	practices - NIFA GF 1.3
(SARE) Program	 Information/resources 	 Allied Industry 	 FIELD 1.4 # of participants 	field crops-NIFA GF 1.4.a	 FIELD 3.3 # of producers
 Partnerships: 	on plant diseases –	(Implement	informed about agronomic	 FIELD 2.3 # of participants that 	indicating increased dollar returns
o ISDA	Plant Disease &	Dealers, Seed	issues	adopted changes to their farm to	per acre due to overall crop
 Indiana Corn 	Diagnostic Lab	Sales, Banking)	 FIELD 1.5 # of participants 	make them more resilient to climate	quality improvement - NIFA GF
and Soybean	 Climate change 	 Commodity 	informed about agronomic	change - NIFA CC 2.3	2.4
Association	 Forages 	groups	technologies	 FIELD 2.4 # of producers indicating 	 FIELD 3.4 # of routine water
 NRCS 	 Soil Health–Cover 	 Governmental 	 FIELD 1.6 # of participants 	adoption of recommended	quality tests of major water bodies
o IN Farm	Crops, Residue	Agencies(USDA,	informed about agronomic	technologies for agronomic crops -	and tributaries showing a
Bureau	Managementand	ISDA, IDNR,	managementpractices	NIFA GF 2.3	decrease in soil particles and
 Soil & Water 	Manure usage	OISC)		 FIELD 2.5 # of producers indicating 	agriculturally-related chemicals of
Conservation	 Water Mgmt Irrigation 	 Consultants 		adoption of recommended	concern
Districts	and Field Drainage	 Certified Crop 		managementpracticestor	
	 Grain Storage and 	Advisors (CCA)		agronomic crops - NIFA GF 2.3	
	Management	Youth			
 Purdue ACRE Desservels 	 Precision Agriculture 	 General public 			
Research	 Nutrient Mgmt. 	 Underserved / 			
Farm	 Alternative Crops 	Underrepresente			
	 Education Materials 	d clients			
	 Media Releases and 				
	social media				
	 Training for CCA's 				
	providing Continuing				
	Education hours to				
	meet requirements				
	One source among				
	many of information for				
	clients				

ASSUMPTIONS

1)Continued demand for agronomic crops for food, livestock, fuel, and fiber.

2)Field crop sector remains strong.

3)Overall soil productivity remains constant or improves.

4)Continued demand for field crops

EXTERNAL FACTORS

- 1)Impacts from weather variability/climate change
- 2)Funding and resource acquisition
- 3)Public sector/retailer/governmental concerns over production parameters such as GMOs, pesticide usage, soil and nutrient loss, and hypoxia/water quality
- 4)Variable weather (climate change)
- 5)Regulation changes