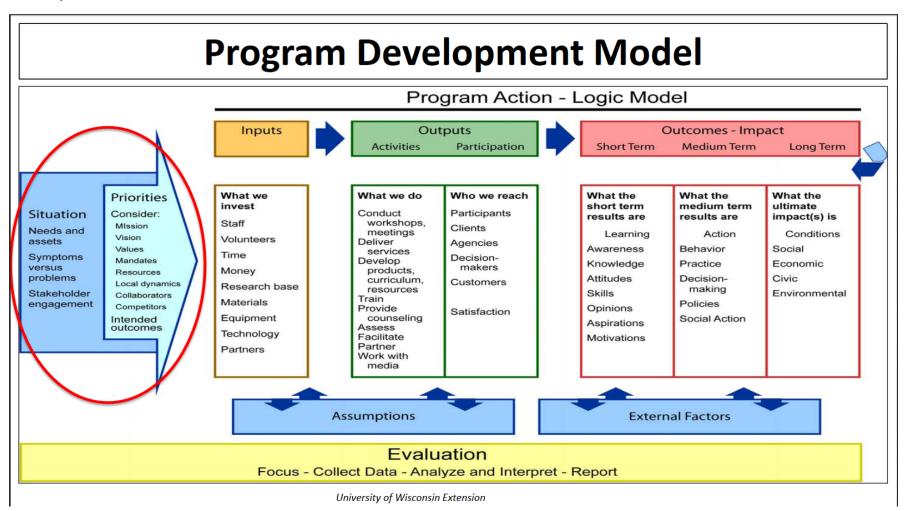
Logic Model



The Logic model is a tool used for planning, implementation and evaluation. In this documents: 1) Model elements, 2) a blank template, and 3) an example model.



Logic Model



Inputs	Ou	tputs		Outcomes - Impact		
	Activities	Participation		Short	Medium	Long
nptions			E	xternal Factors		

Logic Model



Program: Reducing environmental impact of livestock production – water quality (W. Powers, Specialist example). Logic Model Situation: Livestock production provides an important protein source in human diets. Practices used in raising livestock can result in negative environmental consequences. My program aims to minimize negative environmental consequences as a result of providing animal protein sources thus providing a public value of protected natural resources and improved environment.

Inputs	☐ Outputs			1	Outcomes Impact			
	IUI.	Activities	Participation	L	Learning Change	Behavior Change	Condition Change	
Time Grant dollars State dollars Student assistance with research activities Advisor and Specialist assistance with Extension activities and development of decision aids	ccc ped did trans ree from sp. Ecc rans at ree arright.	onduct applied research onfirming metric that a 1 ercentage unit reduction in jetary crude protein anslates to a 10 percent duction in N excretion om various livestock becies ducate those who make tion formulation decisions bout the benefits of ducing diet crude protein and the performance applications – share issearch findings neetings, scientific ublications, trade articles)	Lab group Consulting nutritionists, Extension colleagues		Improved understanding or how to formulate reduced crude protein diets without impacting livestock performance and the excretion benefits derived (not measured)	Adoption of reduced crude protein diets (measured by working directly with consulting nutritionists to obtain data related to portion of clientele feeding to metabolizable protein, number of synthetic amino acids in diet, etc.)	Improved water quality (indicator is calculation of industry adoption rate and associated reduction in N excretion as supported by research activities)	
	prim ar prim strum (didecis	forked with livestock reducers and grazers to aprove manure handling and pasture management ractices – adopt larger orage areas, minimize anoff from stacked anure/compost lemonstrations, field days, ecision aid/tools for alculating manure reduction)	Livestock producers, grazers, design engineers		Increased knowledge about low-risk manure handling and storage practices and grazing practices to minimize P runoff (not measured)	Extent of adoption of new methods of manure production calculation (measured by working with DEQ to review design calculations in permit applications) Adoption of rotational grazing and riparian buffers (client survey)	Improved water quality (indicator is % change in manure storage time due to use of new tools; result is less risk of manure overflow from storage systems; reduced edge-of-field P loss as a result of riparian buffer and pasture management)	
	ar cu pr	eveloped and delivered nnual curricula to manure pplicators (farmers and ustom haulers) on best ractices to reduce risk to ater resources	Commercial and farm manure applicators		Increased knowledge as a result of taking the annual training (measure pass rate of training enrollees versus test takers that did not take training	Extent of change in practices to adopt principles taught in trainings ession (measured in permit applications and renewals 2 xx post-training)	Improved water quality (indicator is annual change in number of manure spills and gallons spilled extrapolated to gallons of nutrients not reaching water ways)	

Assumptions

Research findings were applicable across time and space; other influencing factors for improved outcomes were contributors in addition to my program efforts

External Factors

Legislation changed to enforce stricter manure handling requirements and associated compliance enforcement – contributed to improved outcomes, feed ingredient prices influence adoption of diet recommendations