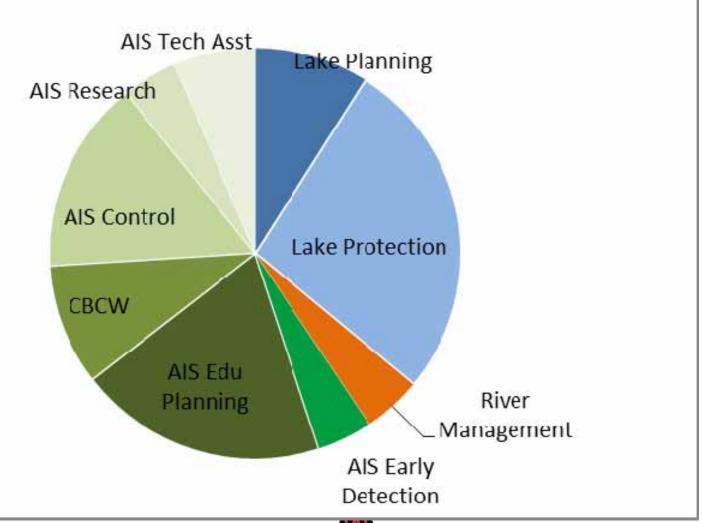




# WI Grants - \$6.5 mill









## Improve AIS program

- What do stakeholders and managers value in an AIS management program?
- AIS management program:
  - prevention activities
  - monitoring activities
  - control activities
  - outreach activities









### We could ask...

- On a scale from 1-5, how important is it that you have CBCW staff at your boat launch every weekend?
- How important is it to have a professional monitor your lake for AIS?
- Issues
  - Straightlining
  - Lack of differentiation between variables
  - Difficulty in comparisons
  - What people say and what people do aren't always the same







### What is conjoint?

- Conjoint Analysis- Statistical technique used in market research to determine how people value different attributes
- Conjoint analysis requires participants to make a series of trade-offs. Analysis of these trade-offs reveal relative importance of attributes.
  - Example Golf Balls & Power Company







### How we did this for AIS?

- Local AIS Contact
  - No local contact
  - Limited local contact
  - Involved local contact
- Monitoring
  - No monitoring
  - Citizens
  - Professionals

- Control
  - No control
  - Response control
  - Management plan control
  - Every year
- **Boat inspections** 
  - No inspections
  - Weekends
  - Everyday

Added a validation question – "Would you actually implement your chosen program?"



Stakeholder Groups that Received Survey				
DNR Water Staff				
DNR Fisheries Staff				
Wisconsin AIS Partnership Email List				
Wisconsin Lakes Membership (citizens)				
Grant Sponsors (2011-2015)				
Wisconsin Lakes Partnership Conference Attendees				
Clean Boats Clean Waters Volunteers				
Citizen Lake Monitoring Volunteers				
UWEX Lake Tides Subscribers				

~3,000 recipients, 750 respondents



### Survey Information

- N>750
- Sensitivity analysis to remove 100 least reliable respondents
- Two fixed tasks







### Conjoint Task

### Which AIS management program do you believe would be better for Wisconsin?

	Program A	Program B	Program C	
Control	AIS removal upon discovery	AIS removal only when abundance exceeds predetermined levels	No AIS removal efforts	
Local Contact	Local contact available to answer AIS questions	Local contact available to answer AIS questions, educate citizens, and perform field work	No local contact available	
AIS Lake and River Monitoring	Trained citizens documenting presence or absence of AIS	Trained professionals assessing presence or absence of AIS	No AIS monitoring	
AIS Boat Inspections	AIS boat inspections every day	No AIS boat inspections	No AIS boat inspections	
		<u> </u>		

Given limited state resources, would the program you just chose be acceptable to implement on your home lake or river?









### Which AIS management program do you believe would be better for Wisconsin?

### Program A Program B Program C

Control	AIS removal upon discovery	No AIS removal efforts	AIS removal upon discovery	
Local Contact	Local contact available to answer AIS questions	No local contact available	No local contact available	
AIS Lake and River Monitoring	Trained professionals assessing presence or absence of AIS	Trained citizens documenting presence or absence of AIS	No AIS monitoring	
AIS Boat Inspections	AIS boat inspections every day	AIS boat inspections on the weekend	No AIS boat inspections	
	0	0	0	

Given limited state resources, would the program you just chose be acceptable to implement on your home lake or river?

Yes

14 1400







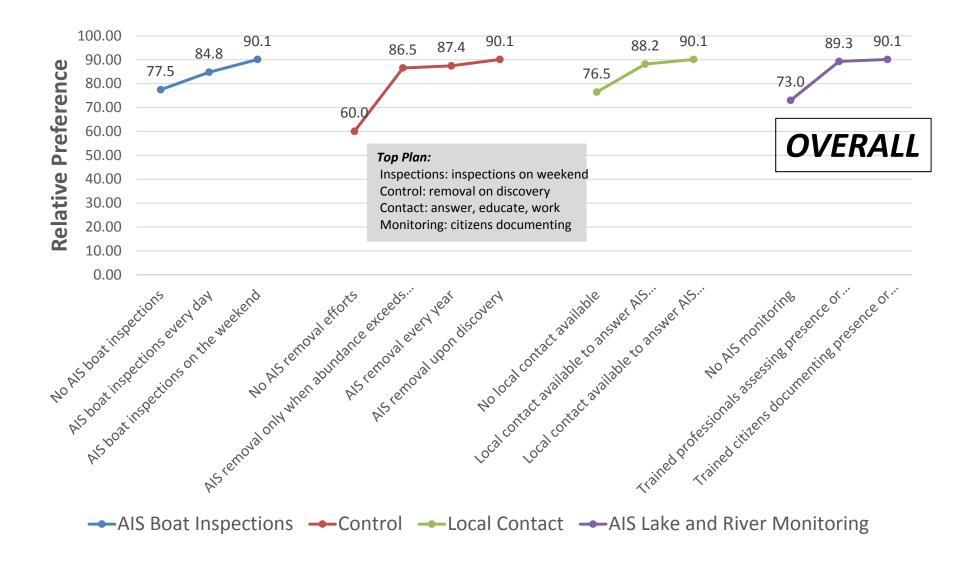
- Control in response to a new finding
- CBCW on the weekend
- Citizen monitoring
- Engaged local contact

But that's not the whole story!





Average Utility Values			
Rescaling Method:	Zero-Centered D	iffs	
	Total		
No AIS boat inspections	-37.58		
AIS boat inspections on the weekend	33.47		
AIS boat inspections every day	4.11		
No AIS removal efforts	<b>-</b> 88.63		
AIS removal upon discovery	43.47		
AIS removal only when abundance exceeds predetermined levels	<b>18</b> .45		
AIS removal every year	26.71		
No local contact available	<b>3</b> 6.13		
Local contact available to answer AIS questions	10.76		
Local contact available to answ er AIS questions, educate citizens, and perform field w ork	<b>25.</b> 36		
No AIS monitoring	<b>-</b> 55.40		
Trained citizens documenting presence or absence of AIS	<b>30.5</b> 6		
Trained professionals assessing presence or absence of AIS	24.84		
None	-20.09		
verage Importances			
	Total		
	%		
AIS Boat Inspections	23.45		
Control	36.42		
Local Contact	17.21		
AIS Lake and River Monitoring	22.93		
Total	100%		
stimated Market Share			
	Share	Std Err	
	%	%	
Top Choice Plan	90.12	0.96	
None	9.88	0.96	





### Differences across stakeholders?

- DNR/UW
- Citizens/Volunteers
- Gov, County, Consultants





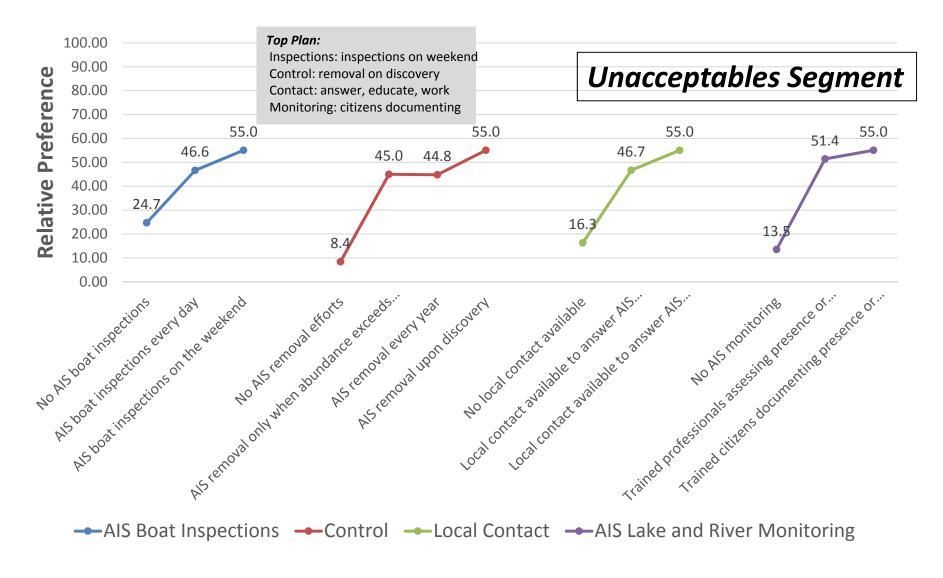


## Latent Class Analysis

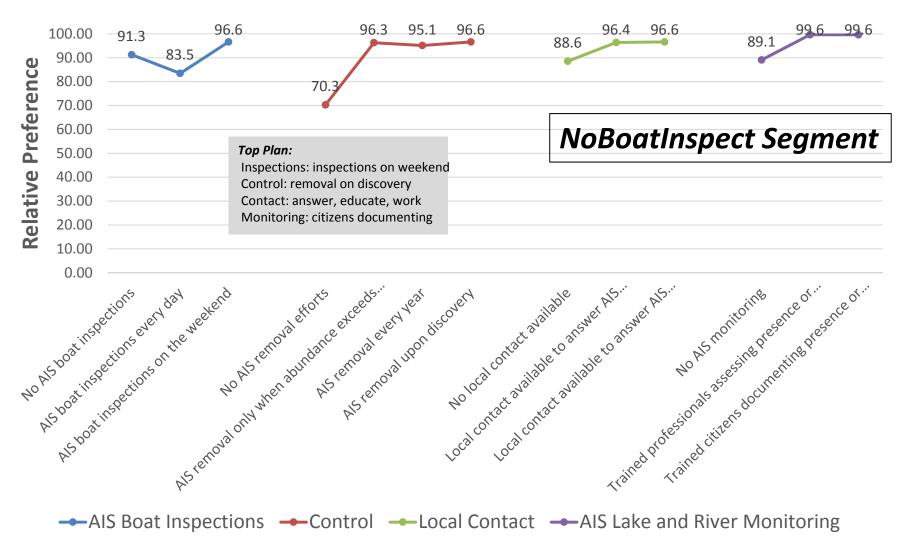
- Sample segmented out into three groups
  - All still prefer the same "top plan"
  - Differences in 2<sup>nd</sup> choice and approval



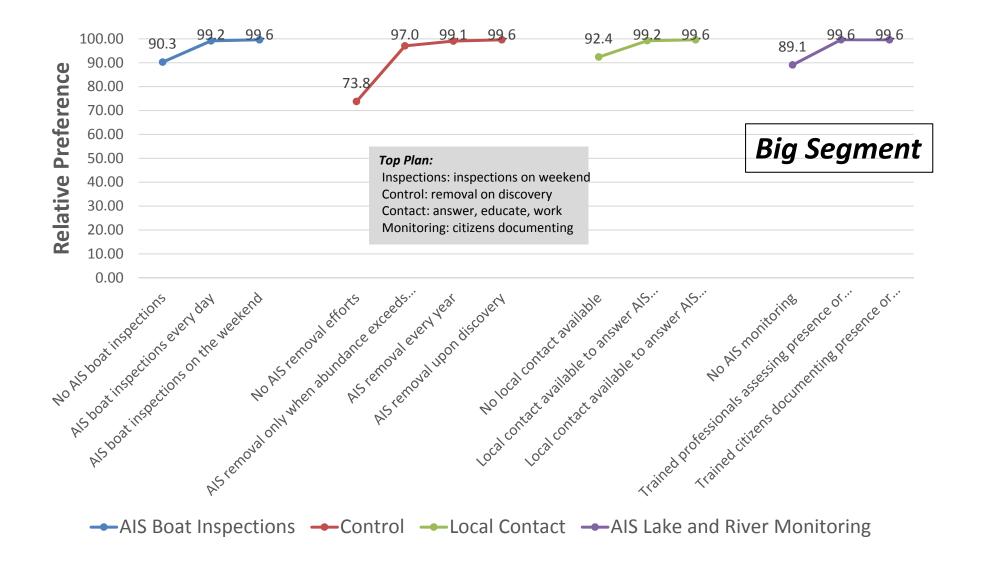




Not statistically different from whole sample, but tends to be younger and professional with more education



Not statistically different from whole sample, but tends to be older and less professional





### Take home thoughts

- AIS management is important you have to do something
- 90% find the top plan acceptable
- Control explains the most variation
- CBCW and Monitoring essentially equal
- Local contact explains least variation
- Nuances, folks







### Future Changes

- Revising the administrative code that governs the grant program
  - Increase allocation for early detection
  - Increase support for volunteer monitors
  - Incorporate CBCW into code
  - Revise AIS Coordinator program to have consistent coverage statewide







- Barry Meeting notes
- Focus on sensitivity analysis & set that up; minor differences
- Average utility values best described as ranks rather than comparable values (CBCW wknd, no CBCW, everyday)
- Unacceptables gave "less" options and they didn't gravitate towards that; perhaps a more extreme/protective program is what they are looking for