National Public Survey Results for NABCI



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Survey topics

- Participation in and attitudes toward waterfowl and wetlands-based activities
- Awareness of wetlands and concern for loss of wetlands ecosystem services
- Engagement in conservation behaviors
- Preferred communication channels and sources

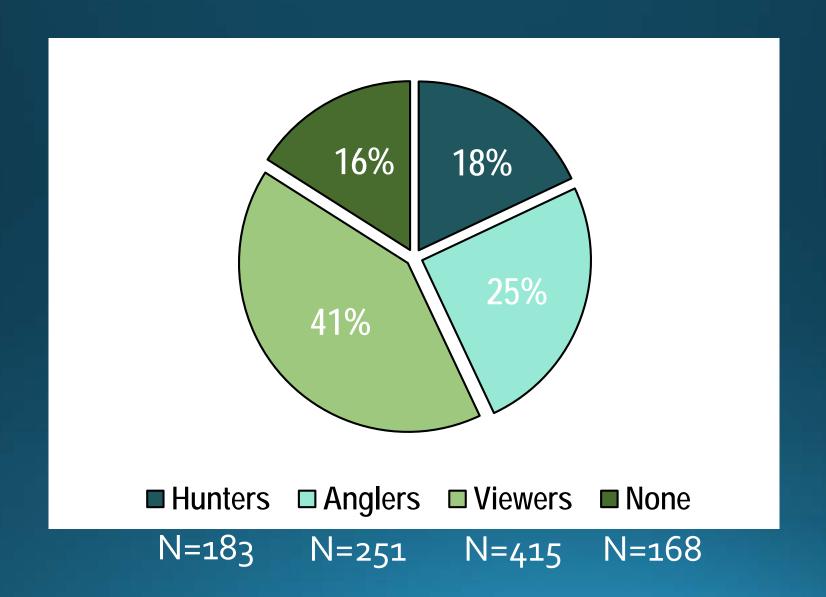
Nature and Wetlands Survey

Methods

- Mail-out survey, January-March 2017
- 5,000 U.S. addresses
- 1030 surveys returned, 559 not deliverable
- 23.4% response

- Nonresponse survey (n = 275) & comparison Census & the National Survey of Fishing, Hunting, and Wildlife Associated Recreation
 - Data weighted by gender & age
 - Possible selection bias for wildlife-minded participants

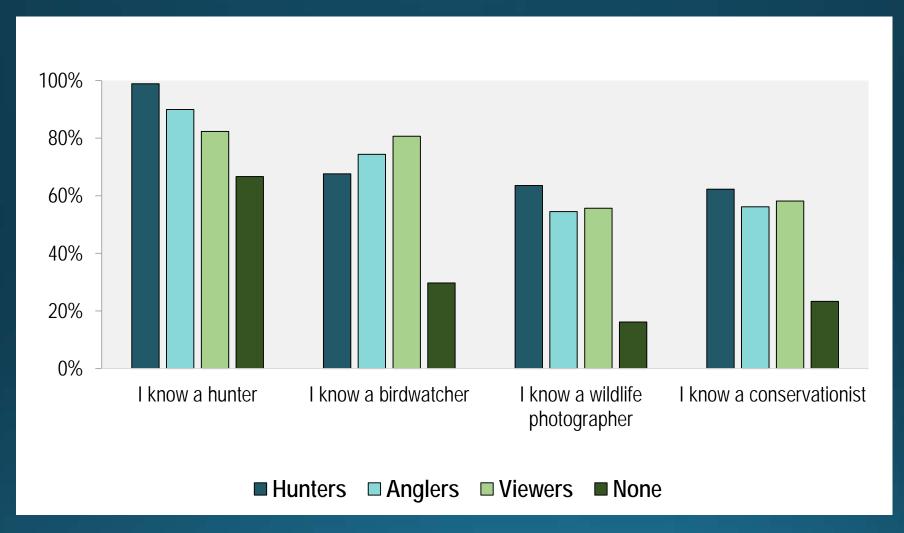
Wildlife-related recreation groups



Lesson 1: Hunting

- Many people hold negative attitudes toward hunting, even though they know hunters.
- Attempting to recruit them as hunters unlikely to be effective.

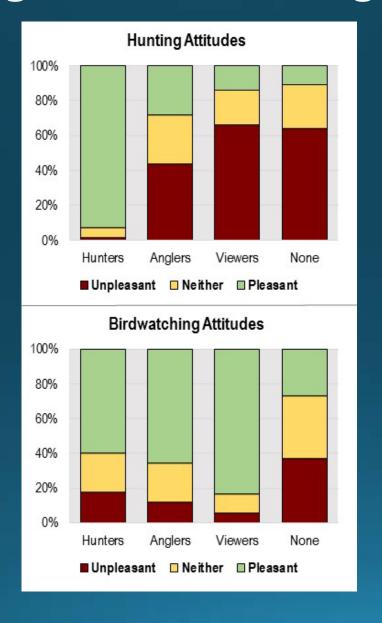
Social networks



 χ^2 =76.41, Cramer's V=0.276 | χ^2 =146.97, Cramer's V=0.384 | χ^2 =96.45, Cramer's V=0.312 | χ^2 =70.23, Cramer's V=0.266. For all items p<0.001 and df = 3.

Items adapted from Harshaw & Tindall (2005)

Hunting & birdwatching attitudes



Lesson 2: Wildlife recreation & conservation

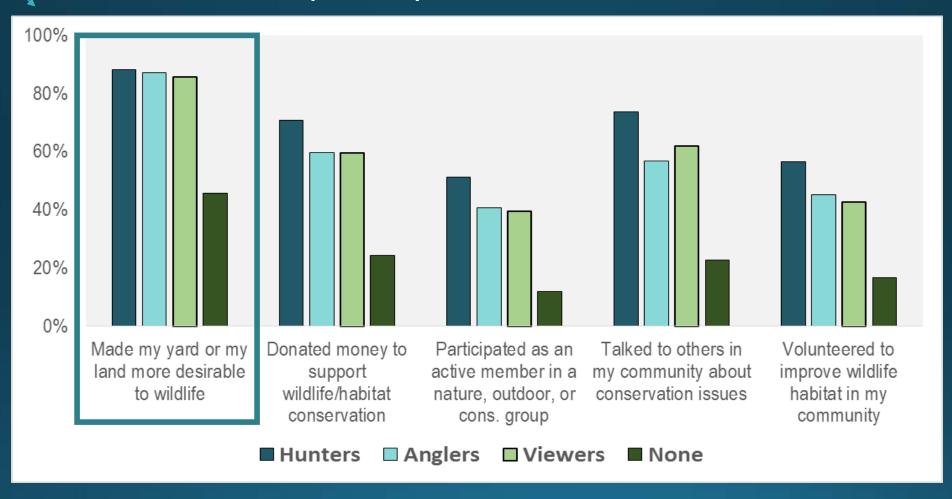
 All types of wildlife recreationists are engaged in conservation behaviors.

 This is less so the case for wetlands/waterfowl specific behaviors.

A NABCI Goal!

General conservation behavior

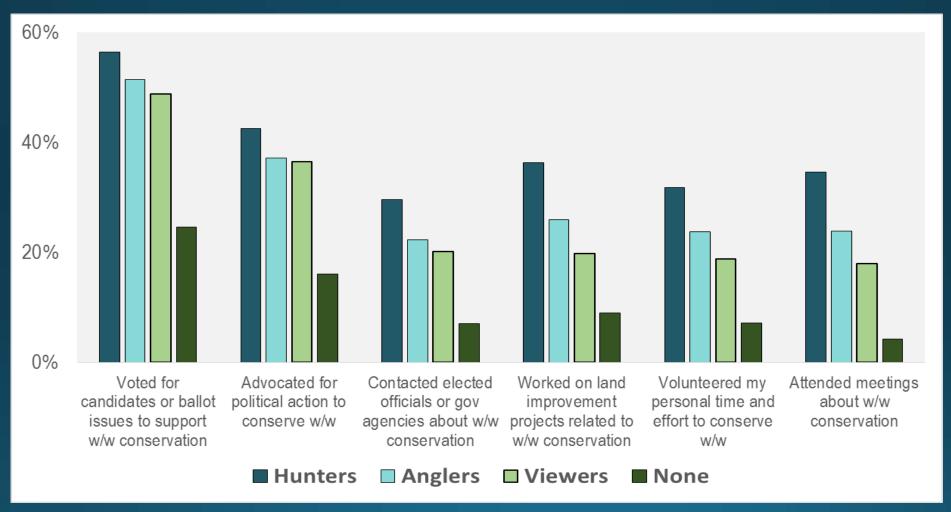
Percent who participated in the last 12 months



 χ^2 =117.98, Cramer's V=0.342 | χ^2 =53.52, Cramer's V=0.230 | χ^2 =42.17, Cramer's V=0.205 | χ^2 =67.58, Cramer's V=0.259 | χ^2 =34.58, Cramer's V=0.185. For all items p<0.001 and df = 3.

Items adapted from Cooper et al. (2015)

Wetlands/waterfowl conservation behavior Percent who participated in the last 12 months



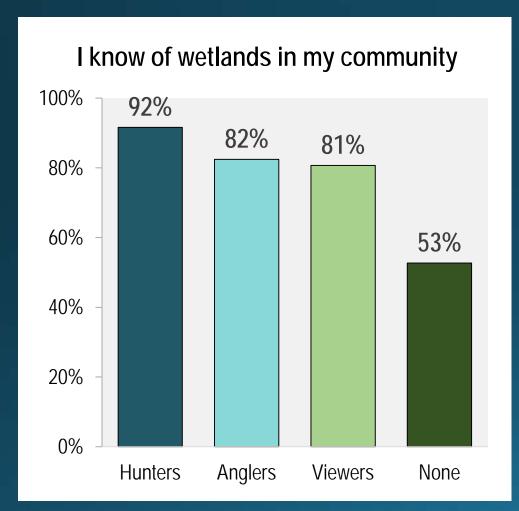
 χ^2 =33.10, Cramer's V=0.182 | χ^2 =21.03, Cramer's V=0.145 | χ^2 =11.24, Cramer's V=0.106 | χ^2 =35.71, Cramer's V=0.188 | χ^2 =26.02, Cramer's V=0.161 | χ^2 =27.53, Cramer's V=0.165. For all items p<0.001 and df = 3.

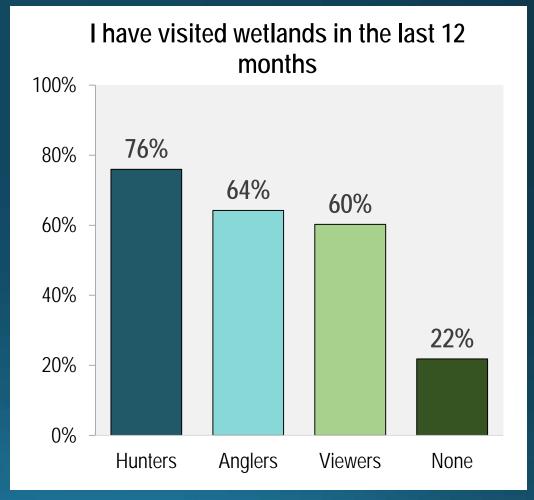
Items adapted from Cooper et al. (2015)

Lesson 3: Wetlands & waterfowl

- Recreationists aware of wetlands though, and do visit them much more than nonrecreationists.
- More people prefer hummers & hawks to ducks.

Wetlands awareness & visitation

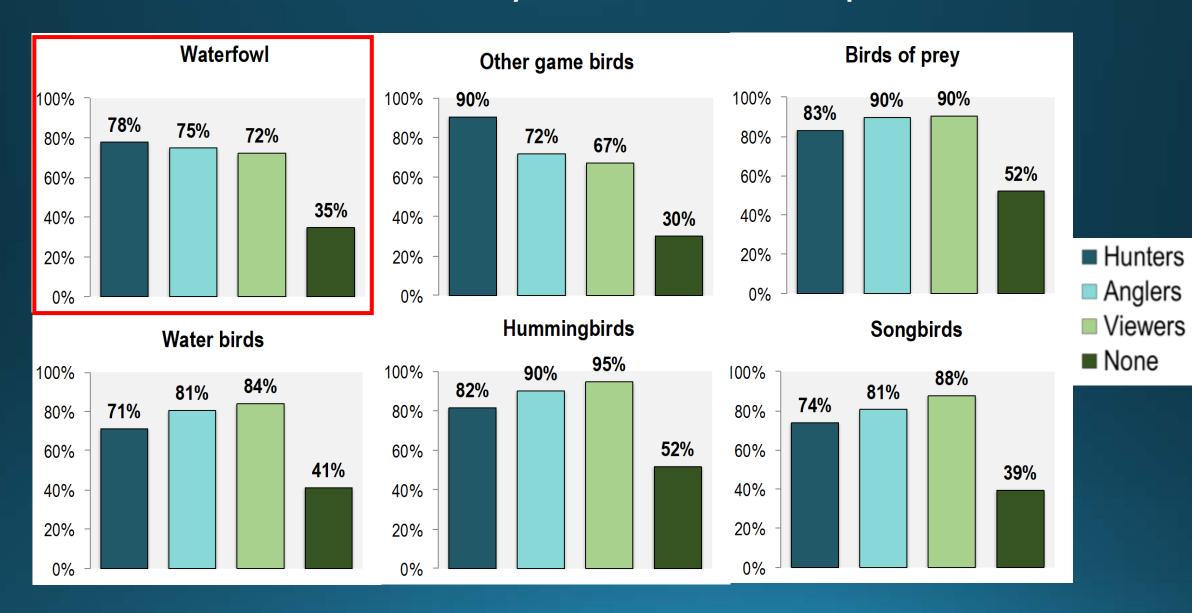




 χ^2 =95.56, 3 df, p<0.001, Cramer's V=0.219

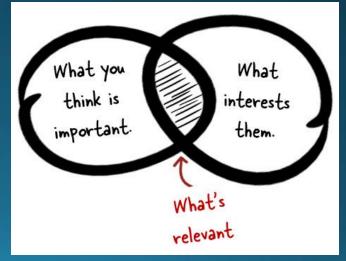
 χ^2 =116.90, 3 df, p<0.001, Cramer's V=0.343

Preferred birds (very or somewhat prefer to see)

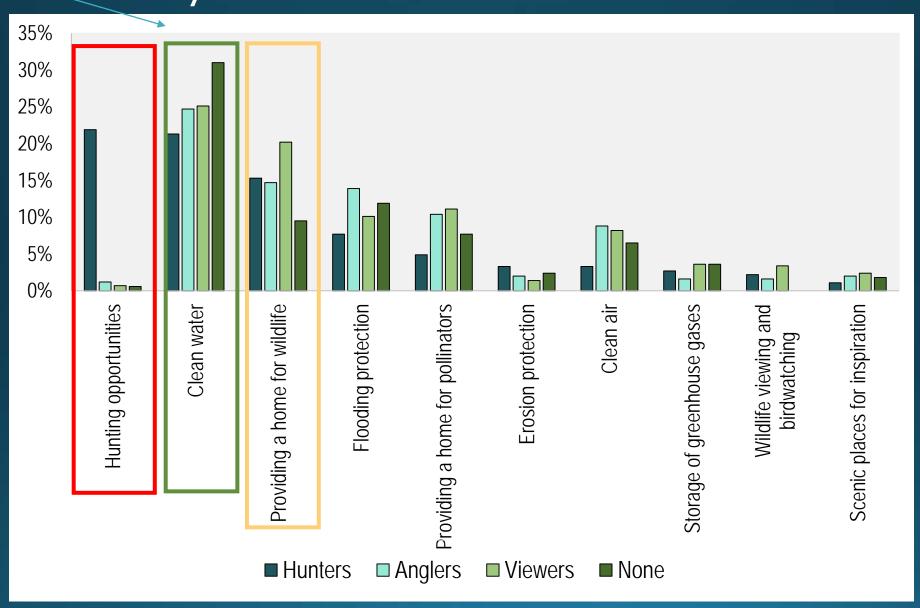


Lesson 4: Ecosystem service loss

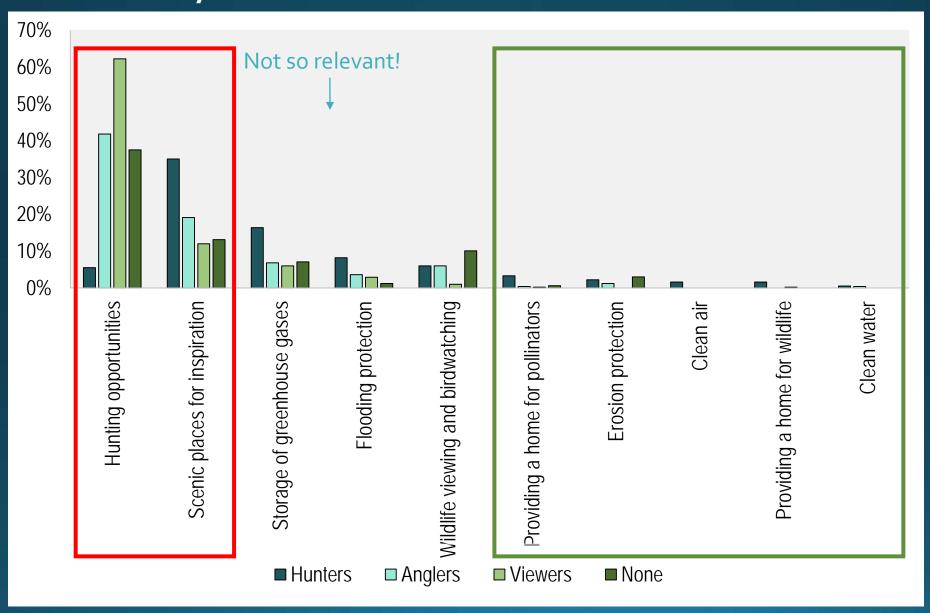
- People might be engaged by a focus on the loss of ecosystem services.
- But only hunters care about a possible loss of hunting.



Ecosystem services: Most concerned



Ecosystem services: Least concerned

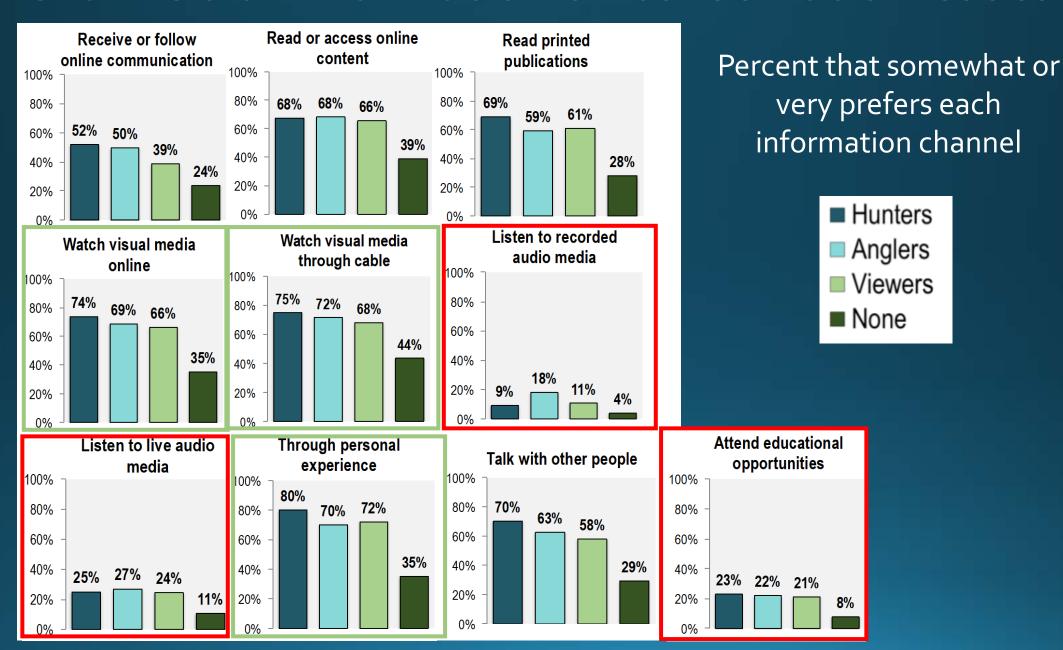


Lesson 5: Communications approach

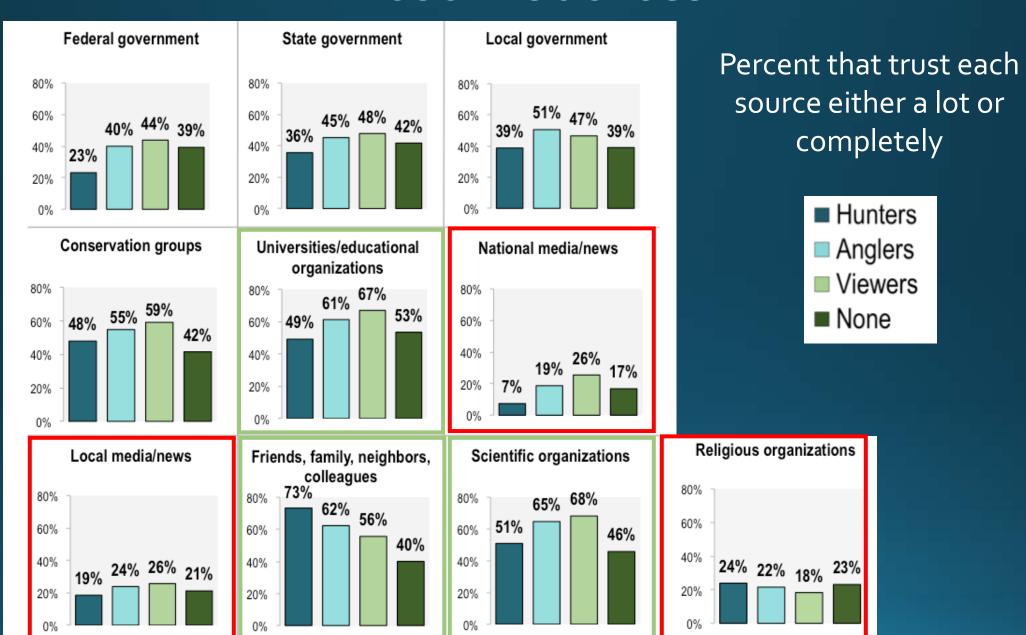
- Reach out to people through personal experiences, the web, and cable.
- The messenger is ideally friends and family or scientific organizations/universities.



Channels of information on conservation issues

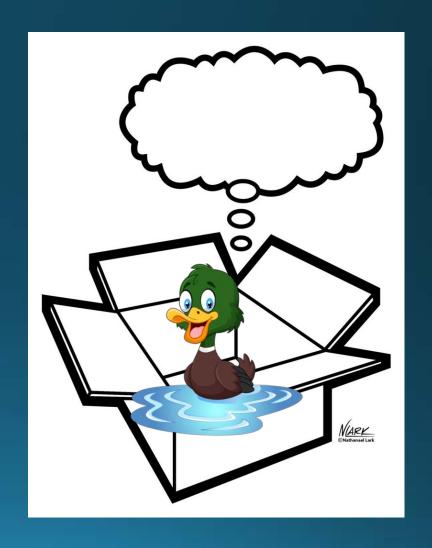


Trust in sources



The Take Home Message

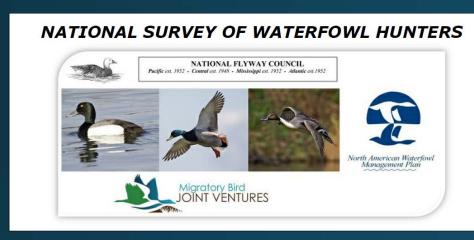
- Value in a unified voice to engage the public in wetland conservation issues.
 - Are universities missing?
- Focus on wildlife recreationists, even if a general viewer.
- Think outside of the wetland/waterfowl box.
- (And there's a constituency for backyard habitat!)



For Discussion...

- How could this information be used by your organization (or NABCI)?
- How could you help disseminate these results within your organization and networks?

More to be learned....





 Coming soon from the NAWMP Human Dimensions Working Group & NABCI Human Dimensions Subcommittee

An Invitation





Human Dimensions Working Group – Public Engagement Team

Acknowledgements

United States

- National Flyway Council and member states in Atlantic, Mississippi, Central and Pacific Flyways
- U.S. Geological Survey
- Migratory Bird Joint Ventures
- U.S. Fish and Wildlife Service
- Ducks Unlimited
- Association of Fish and Wildlife Agencies
- NABCI
- Cornell Lab of Ornithology



Canada

- Wildlife Habitat Canada
- Environment & Climate Change Canada
- Canadian Wildlife Service
- Ducks Unlimited Canada
- Governments of Ontario and New Brunsw
- University of Alberta
- Joint Ventures
- Flyway Representatives

Data weighting

	Category	Sample	Census
Census region	Northeast	19.7%	17.5%
	Midwest	27.7%	21.1%
	South	31.1%	37.7%
	West	21.6%	23.7%
Gender	Male	65.1%	49.2%
	Female	34.9%	50.8%
Age	18-44 (% of adults)	21.4%	48.1%
	45-65 (% of adults)	45.8%	34.7%
	65+ (% of adults)	32.7%	17.2%
Education	High school degree or less	17.4%	41.1%
	Some college or AA	30.3%	26.4%
	Bachelor's degree	26.8%	20.5%
	Graduate degree	25.5%	12.0%
Ethnicity	Hispanic	5.6%	17.1%
Ethincity	Not Hispanic	94.4%	82.9%
Race	American Indian/Alaskan	1.3%	0.8%
	Asian	3.9%	5.1%
	Black	5.0%	12.6%
	Hawaiian/Pacific Islander	0.2%	0.2%
	White	86.1%	73.6%
	Other alone	N/A	4.7%
	Two or more	3.2%	3.0%

	Male	Female
Age: 18-44	1.952	2.550
Age: 45-64	0.563	1.095
Age: 65 +	0.343	1.097

Margin of error:

3.35
Confidence level:

95%

