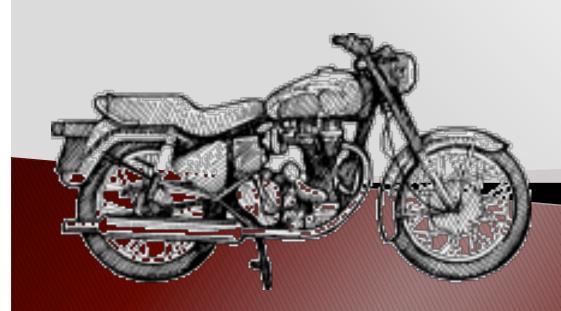


ving Lives, Time and Resources

Texas Motorcyclist Survey



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Texas Motorcyclist Survey

- Part of TxDOT research project
- Purpose:
 - to provide background information on Texas motorcycle rider demographics, riding habits, and attitudes
 - develop communications and outreach plan for encouraging safe riding behaviors
 - provide data for the development of a statewide motorcycle safety plan

Survey Questions – Summary

- Characteristics
 - Demographics
 - Riding habits
 - Training
 - Licensing status
 - Crash experiences

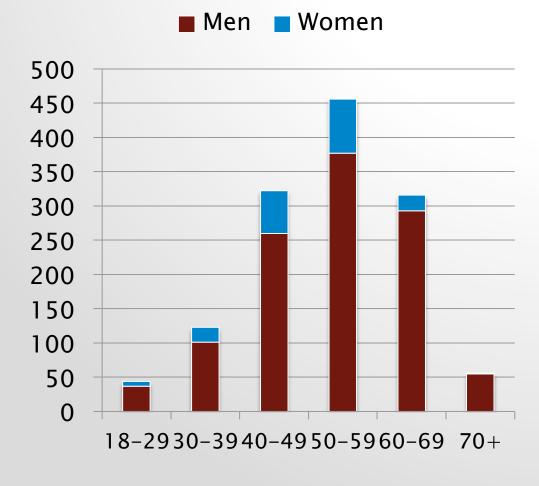
- Knowledge/Attitudes
 - Use of protective gear
 - Opinions on safety countermeasures
 - Opinions on advanced technologies

Where did participants come from?

- Existing e-mail database of riders
- ▶ Texas Motorcycle Safety Coalition (TMSC)
- ▶ Riders groups (TMRA, TMRA2, COC&I)
- ▶ Motorcycle safety instructors → new riders
- Contacts collected at motorcycle rider events
- Social media
- ▶ 1,386 total respondents

Demographics

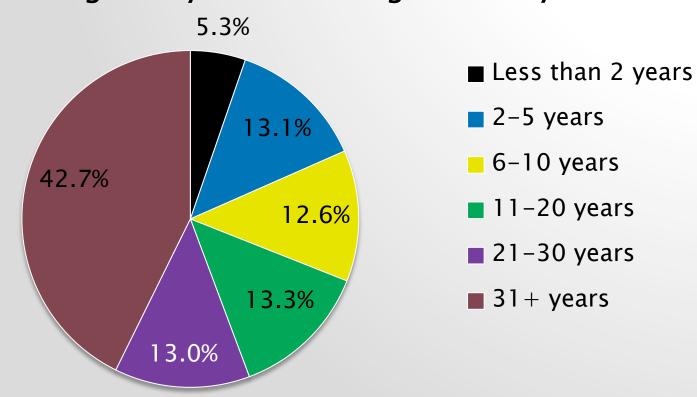
- 85% male
- 15% female
- Ages range:21 to 81 years
- Average age:52.5



Distribution of Ages for Men and Women

Riding History and Experience

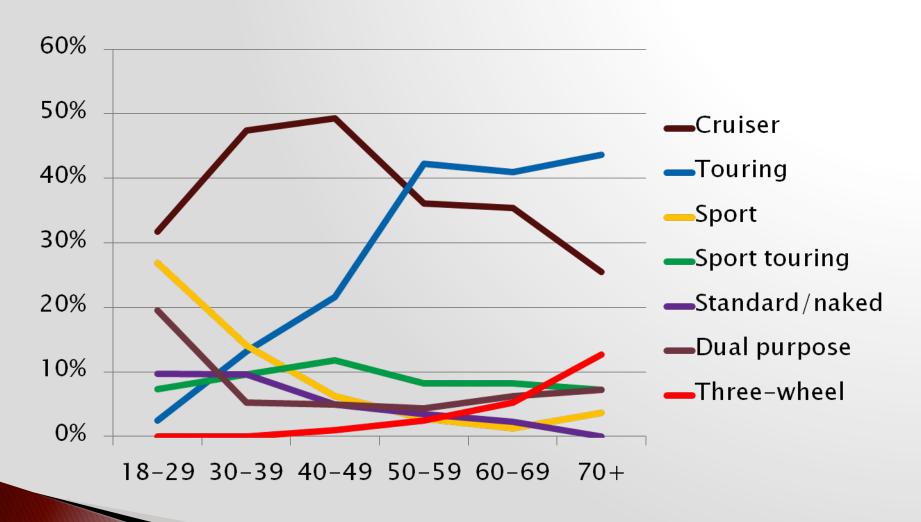
"How long have you been riding a motorcycle?"



Type of Motorcycle Participants Ride Most Often

Туре	Response Percent
Cruiser	39.8%
Touring	33.2%
Sport	5.0%
Sport touring	9.1%
Standard/naked	4.1%
Dual purpose (on and off-road)	5.7%
Three-wheeler	2.8%

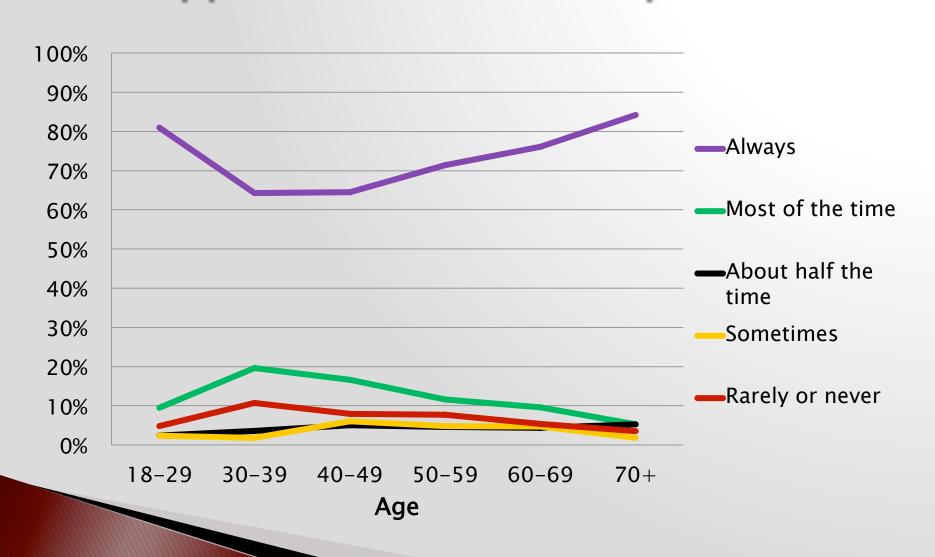
Bike Type by Age Group



Motorcycle Safety Training

- 72% of participants have taken at least one training course
- 82% of these say that training significantly improved their skills
- Training needs identified:
 - Improve/update curriculum
 - Better/more motorcycles available for training
 - Courses for 3–wheel motorcycles
 - Courses for high-performance riding

"How often do you choose to wear a DOT-approved helmet when you ride?"



Reasons for Wearing or Not Wearing a DOT-Approved Helmet

Reasons for wearing a helmet

Protective benefits 81.2% Weather (cold/rain/ 49.6% wind) Keeps bugs/debris out 40.2% of my face Habit 38.3% Know someone who was injured riding without a 25.9% helmet

Reasons for **NOT** wearing a helmet

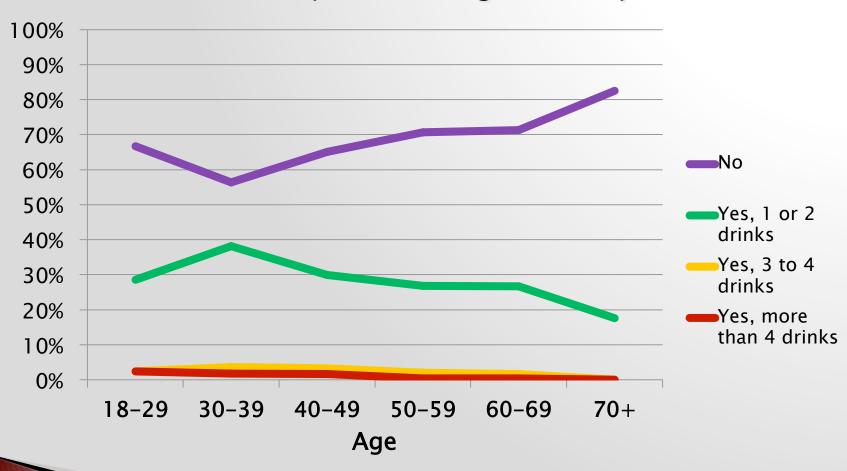
Personal freedom/ choice	58.3%
Weather (hot/humid)	36.5%
Uncomfortable	25.8%
More fun to ride without helmet	25.2%
See better	18.2%
Hear better	16.0%
Give passenger the only helmet	8.0%

Participant Strategies for Improving Conspicuity

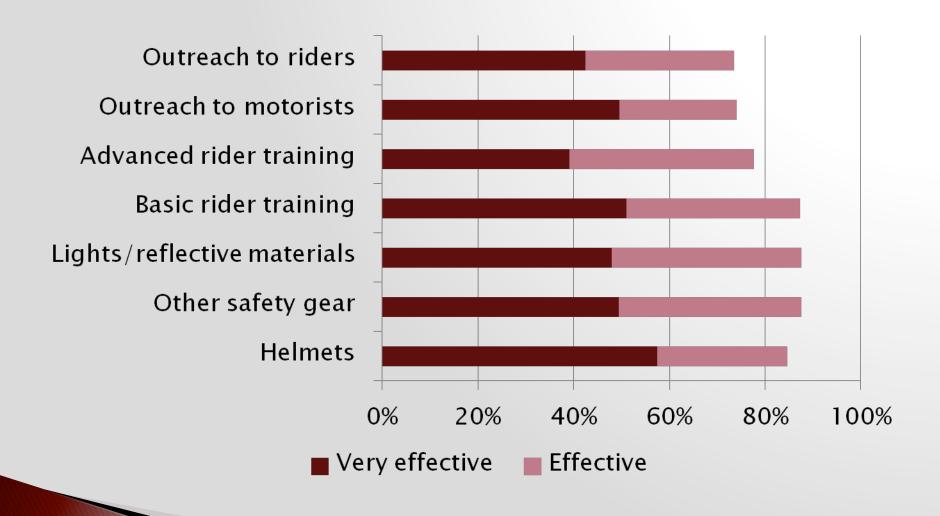
- Strategic lane positioning (74%)
- Auxiliary lights (51%)
- Reflective materials (32%)
- Brightly colored helmet (24%)
- Brightly colored clothing (22%)

Alcohol Use

"Within the last year, have you consumed alcohol within an hour prior to riding a motorcycle?"



Effectiveness of countermeasures



ITS and Advanced Technologies

Technologies for Motorcycles/ Riders Adaptive headlights

Airbag on motorcycle

Airbag vest

Alcohol breathalyzer on motorcycle ignition

Anti-lock brakes

Blind-spot detector in motorcycle helmet

Electronic stability system (for trikes)

Helmet-mounted rear-view display/camera

System to alert riders if they're getting too close to other vehicles, pedestrians, or objects

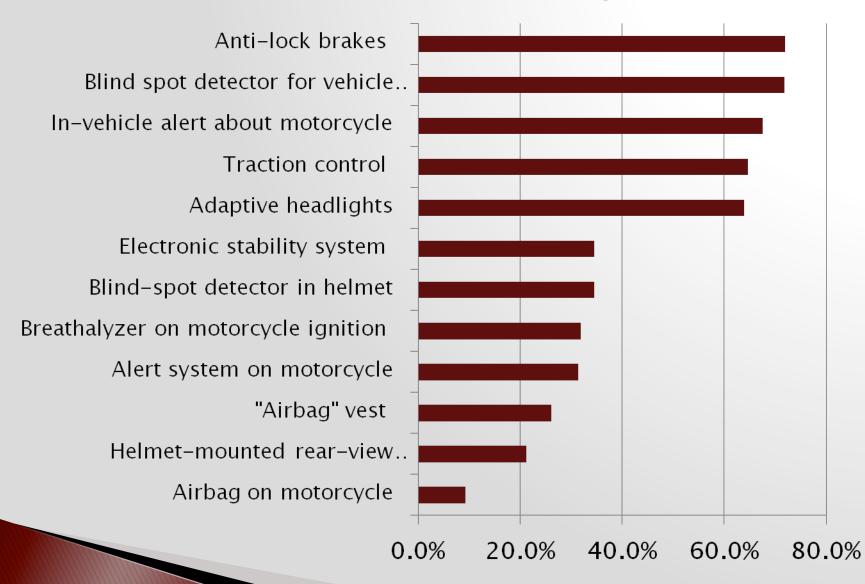
Traction control

Technologies for Vehicles/
Drivers

Blind spot detector (vehicles)

System to warn drivers if they're getting close to motorcycles

Percent Rated as Effective/Very Effective



Texas Strategic Action Plan for Motorcycles

- Living document intended to guide motorcycle safety initiatives for Texas, 2013-2018
- Survey results contributed to plan measures
 - Improve motorcycle training
 - Increase helmet/safety gear use
 - Increase motorcycle/rider conspicuity
 - Increase driver awareness of motorcycles
 - Reduce impaired riding
 - Promote adoption of advanced technologies