Exploring Motorcyclist Riding Frequency in the MSF 100

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Installation Locations

- **Florida (Orlando)**
  - Conditional helmet law
  - Mandatory training
  - Flat and straight roads

- **California (Irvine)**
  - Year-round riding
  - Mixed traffic densities
  - Geographic overlap with past studies

- **Arizona (Phoenix)**
  - Year-round riding
  - Mixed traffic densities
  - High concentration of sport bikes

- **Virginia (Blacksburg)**
  - Fall and Winter
  - Two-lane with hills and curves
  - Geographic overlap with automotive studies
MSF 100 Participants

- Participant age: 21-79
- 72 Males, 27 Females
- Installed from 2 months to 2 years

3 Experience Levels
- Experienced (76)
- Returning (5)
- Novice (19)

Motorcycle Class by Age Grouping
People use cars and bikes differently 1 of 2

- The average driver logs approximately 13,476 miles per year
- Drives between 38 miles per day
- Takes the fewest trips on Sunday (13%) and the most on Friday (16%)

- How do riders in the MSF 100 Compare?

[1] National Household Travel Survey, 2001-2002
Motorcyclists in the MSF 100 tend to take the smallest proportion of their trips on Sunday (11%) but the highest proportion on Thursday (16%).

Cars and Motorcycles, on average have similar trip durations and speeds.
So why the difference?

• Given a difference in the number of total miles per year, but no difference in the number of miles per day, the primary difference may be in the number of days ridden.

• The number of days ridden, along with the length of breaks between riding days is tied to rider proficiency and experience.

• Riders in the MSF 100 vary greatly in when they take their trips.
What is a Riding Day and why does it matter?

- A Riding Day is any day in which a participant took one or more trips.

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<th>Participants</th>
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<td>91</td>
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Calendar of riding days for different riders
Consecutive Riding Days

Most Consecutive Days Ridden

Average Days in a Row
Differences by Location

- The maximum number of riding days is nearly identical between Florida and California (406, 413).

- Virginia has a maximum number of riding days roughly half that of California and Florida (221).
Changes in Latitudes, Changes in Attitude?

Riding Days per Month Florida vs Virginia

* Denotes statistical difference
The Weekend Warrior and the MSF 100

- 30 Riders in the MSF 100 have more than 30% of their trips occurring on a Saturday or Sunday
  - Mixed bike type, age range, and experience level

Percent Riding on Weekends (29% if every day has equal chance)
Recap

• Differences in miles between drivers and riders lay predominately in the number of Riding Days per year.
• Riders differ wildly in the number of trips they take, and when they choose to take them.
• Riders differ by location in regard to when they take their trips.
• Weekends are not overrepresented in the MSF set.