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The Equipment







- GPS
- Machine vision lane tracker
- Accelerometers (3 axes)
- Gyro (3 axes)
- Forward radar
- Turn Signals
- Brake lever inputs
- Continuous collection
- 8-12 mo capacity
- Cellular communication from bikes back to VTTI
- Five color cameras
 - forward
 - rear
 - left
 - rightrider
 - rider





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Mileage and Riding Time in the MSF dataset

- Riders combined for approximately 350,000 miles of travel over 8,776 hours in the saddle
- The average rider in the dataset rode 4,300 miles per year
 - Low of 89 miles
 - High of 16,228 miles
- Average trip covers 11.7 miles over 17.75 minutes with no differences between low and high frequency riders











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Personality Comparisons

- When we compared Sport, Touring, and Cruiser riders in the study on all those questionnaire results, we found almost no difference.
- Touring riders had slightly lower measures on the neuroticism scale than sport bike riders.
- No differences found in any of the others risky behaviors, conscientiousness, dangerous driving.

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Summary

- Average Rider rides approximately 4,300 miles per year.
- Riders tend to ride when the weather is nice, and when the weather is nice riders will ride
- Early investigations reveal few statistical differences between personalities or reported risky behaviors of riders of differing bike types.
- Riders tend to accelerate at a higher rate than they decelerate
- 22 Crashes discovered so far
 MSF Sponsoring full Crash and Near Crash Analysis of the data

