

# RED STICKER OFF-HIGHWAY RECREATIONAL VEHICLE (OHV) ASSESSMENT UPDATE

SEPTEMBER 9, 2016

OHV COMMISSION MEETING

# Introduction

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- ▶ ARB Staff went to the Board in 2013 to propose evaporative controls for OHVs
- ▶ At that time, the Board approved the proposal for green sticker evaporative controls and directed ARB staff to conduct an assessment of the red sticker program
- ▶ The purpose of the assessment is to investigate the evaporative and exhaust emissions impact of red sticker OHVs
- ▶ This assessment includes a population evaluation, emissions testing, and an off-highway motorcycle (OHMC) survey

# Presentation Outline

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- ▶ **OHMC Survey Results**
- ▶ OHV VIN Decoder Update
- ▶ Next Steps

# Survey Methodology

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- ▶ UC Davis hosted online survey of nearly 3,000 OHMC riders in California
  - ▶ A representative sample of riders was selected based on:
    - ▶ County (spatial allocation)
    - ▶ DMV registration (active and inactive)
    - ▶ Vehicle type (red, green, historic, and dual sport)
  - ▶ Postcards mailed to riders as invitation to participate
- ▶ Questions developed with extensive input from industry
- ▶ State Parks provided free day use passes as incentive to participate

# Purpose of Survey

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## AIR RESOURCES BOARD

- Quantify OHMC usage and activity
- Understand differences in seasonal operation
- Evaluate the effectiveness of the red sticker program
- Update emissions inventory

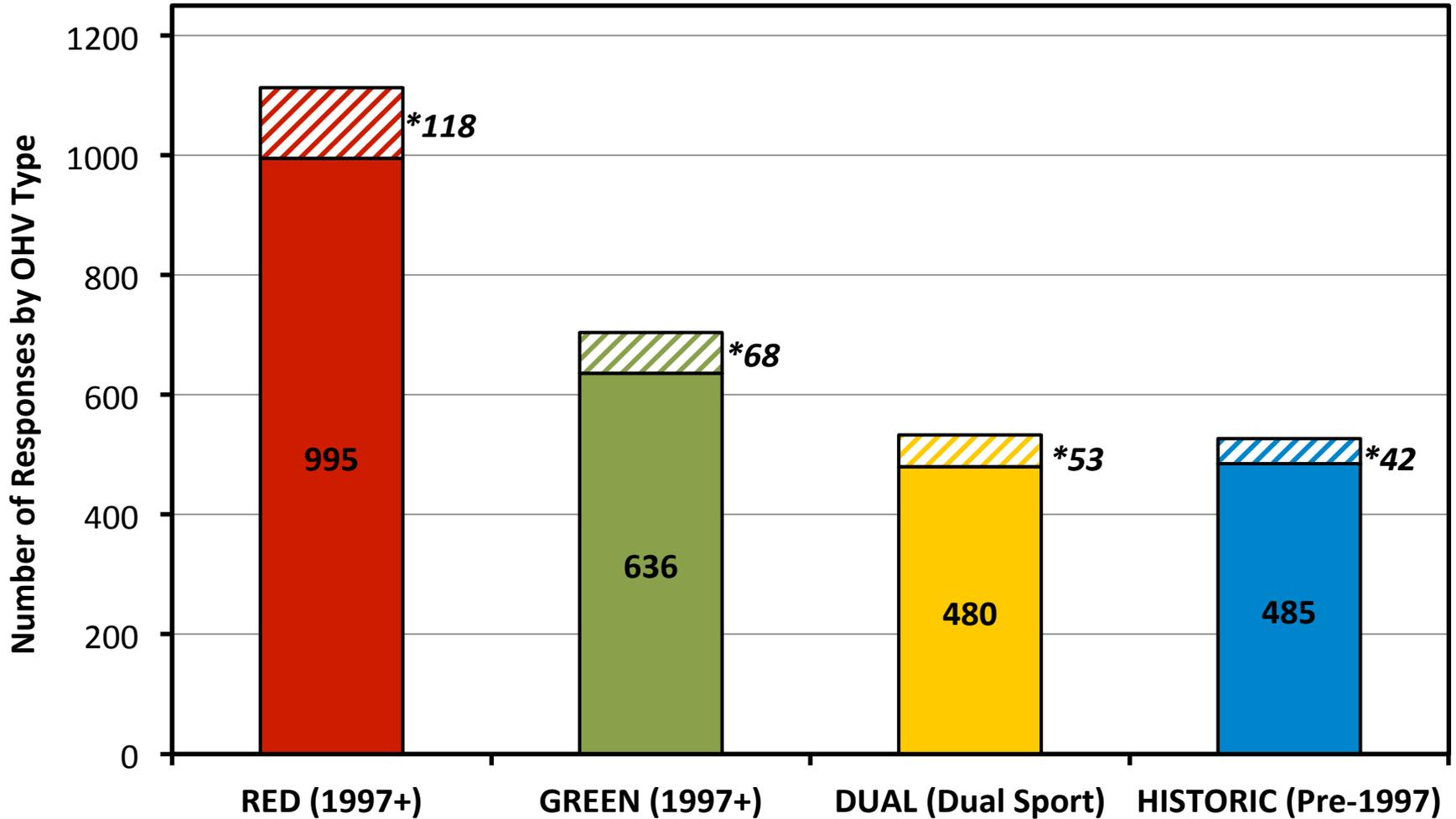


## STATE PARKS

- Quantify dual sport off-road usage
- Understand factors influencing riding area preference
- Evaluate popularity of different riding areas
- Update findings from previous surveys

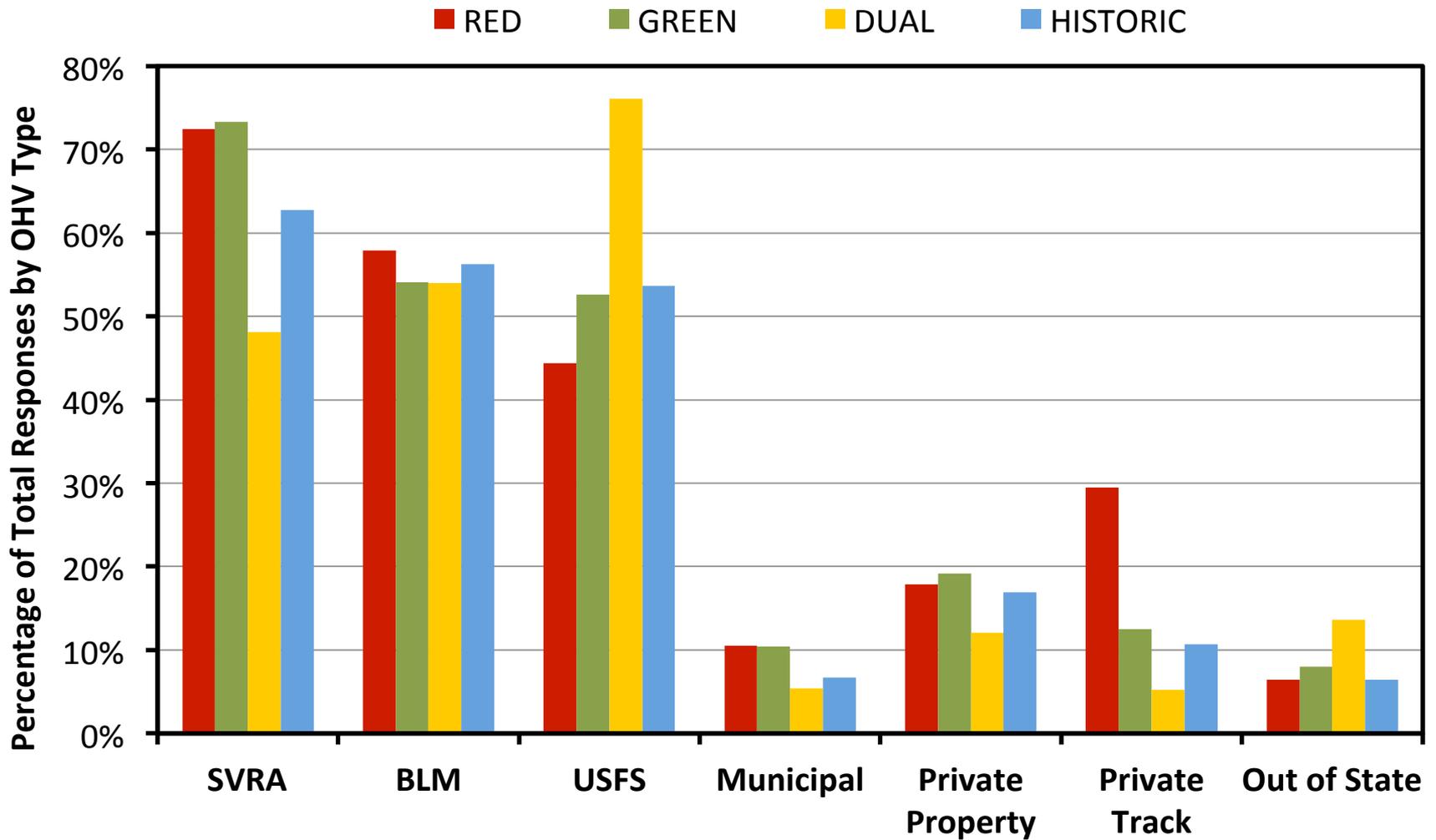


# OHMC Survey Respondents



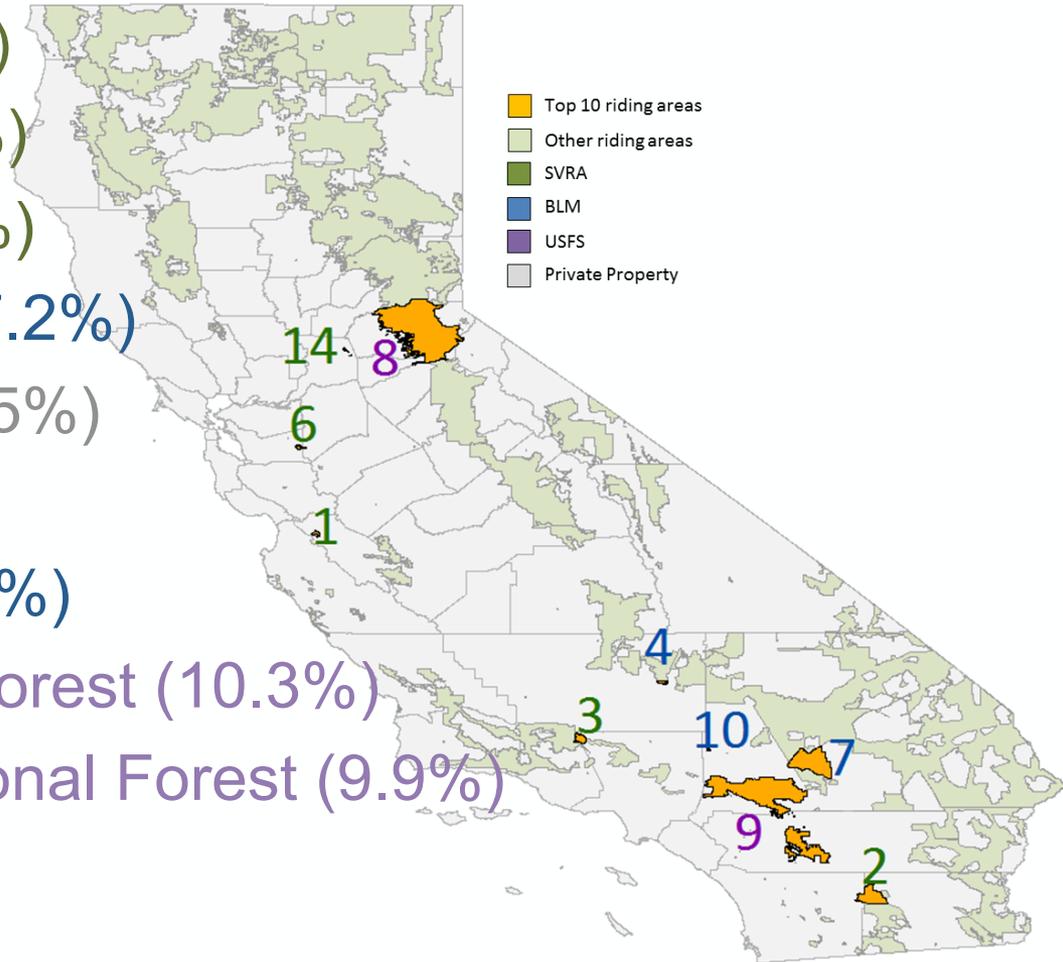
\* Partial responses received (completed at least half of survey)

# Riding Areas

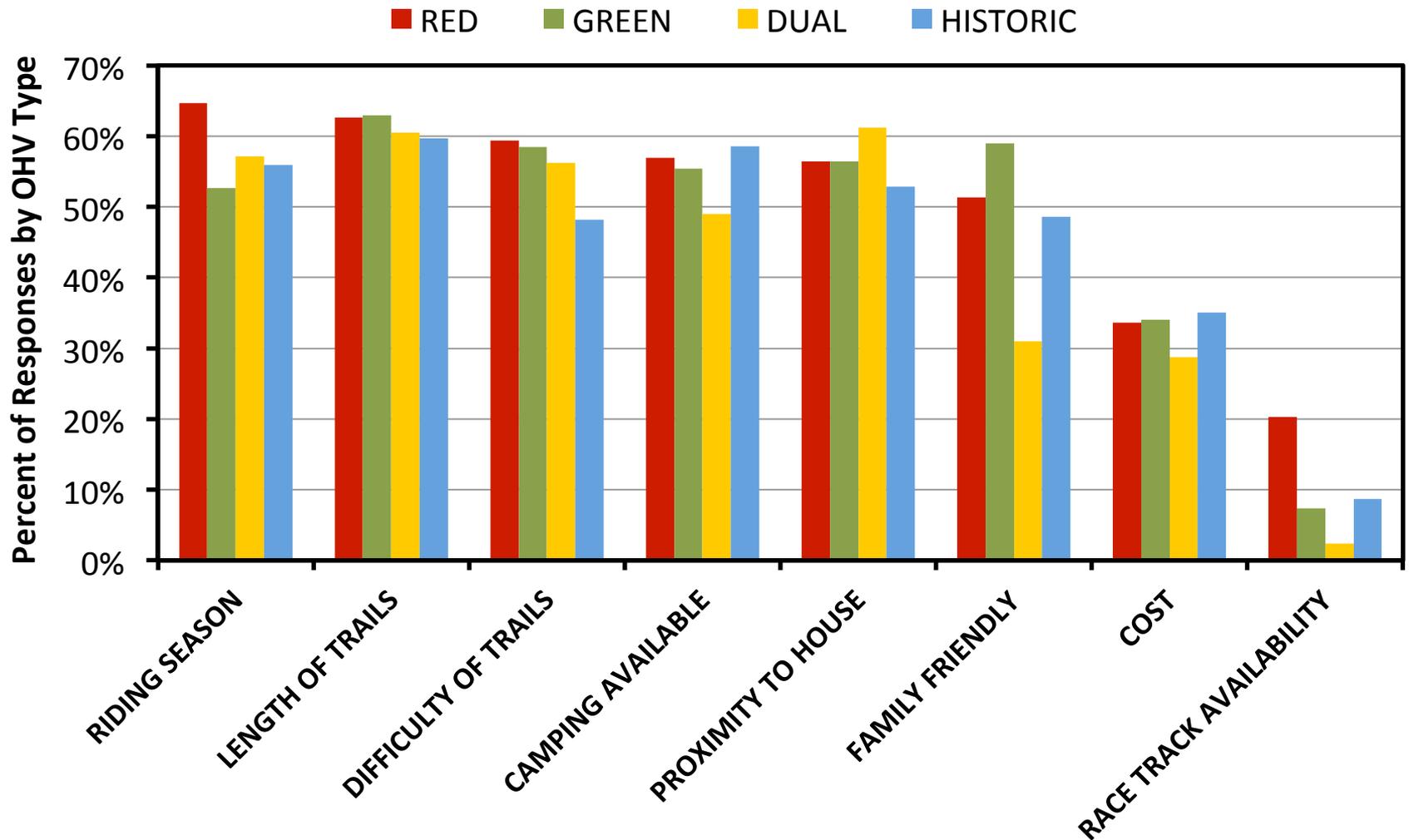


# Top 10 Riding Areas

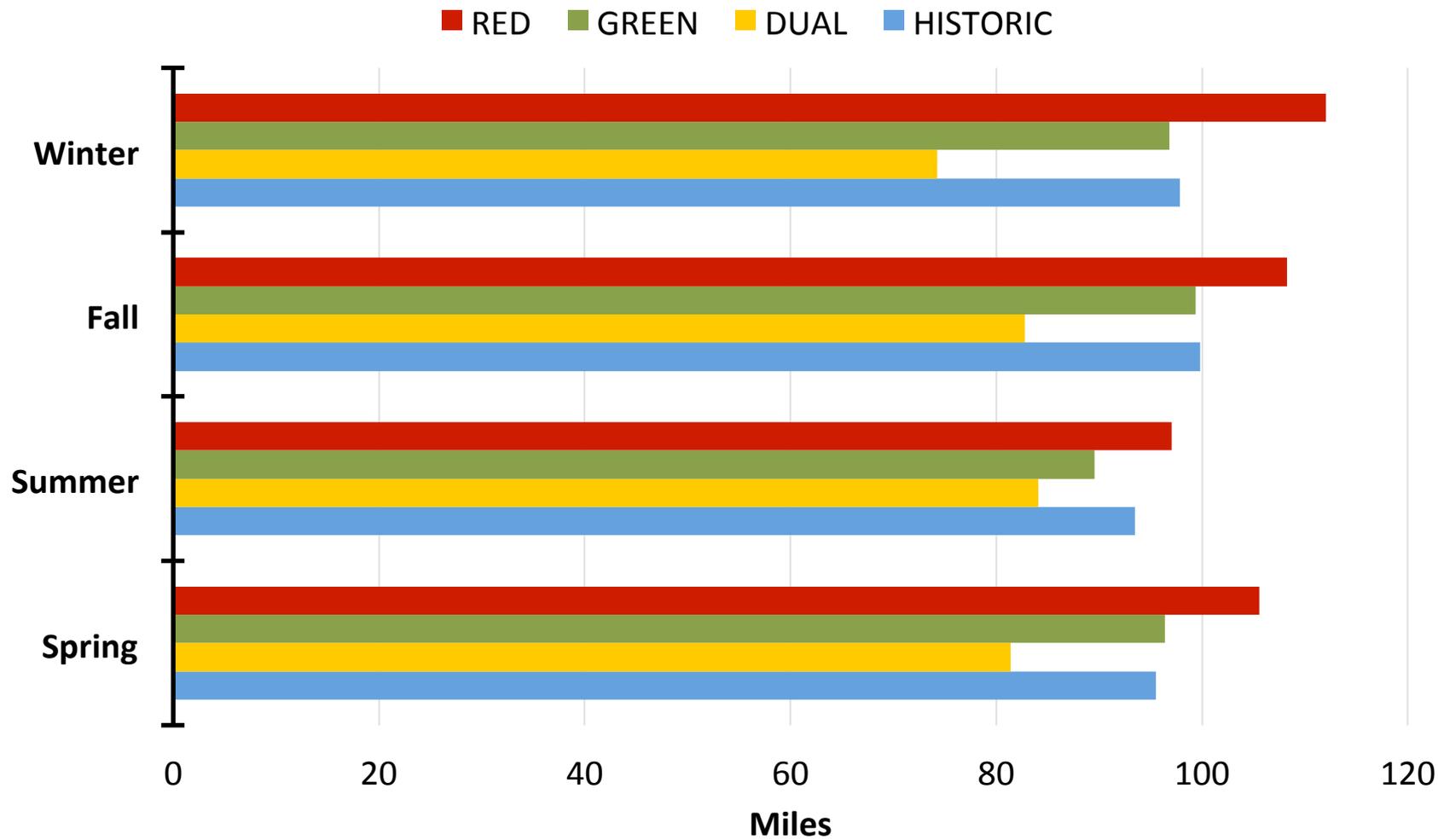
1. Hollister Hills (23.3%)
2. Ocotillo Wells (18.4%)
3. Hungry Valley (17.9%)
4. Jawbone Canyon (17.2%)
5. Private Property (16.5%)
6. Carnegie (15.6%)
7. Johnson Valley (13.3%)
8. El Dorado National Forest (10.3%)
9. San Bernardino National Forest (9.9%)
10. El Mirage (9.5%)
14. Prairie City (8.2%)



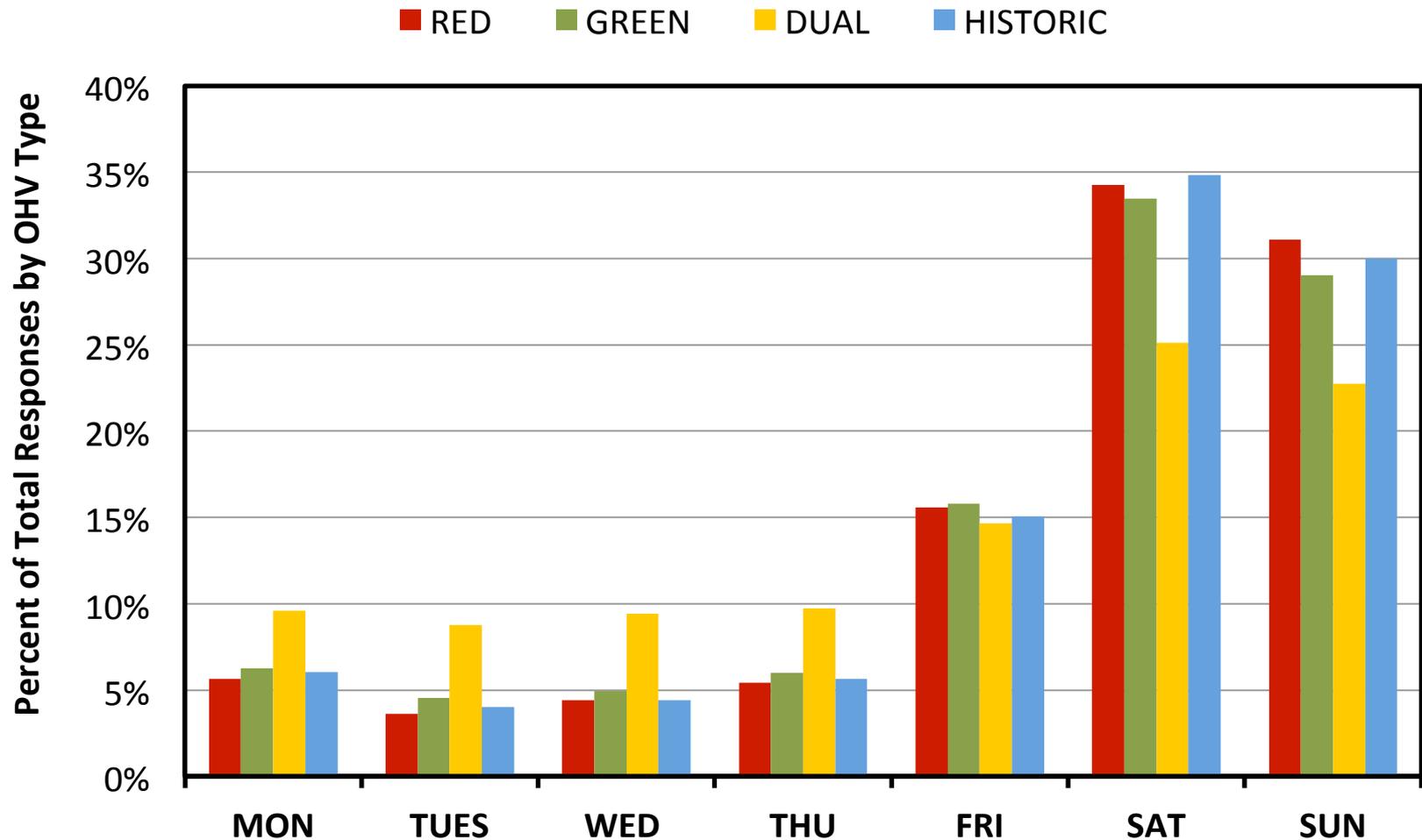
# Factors Determining Riding Location



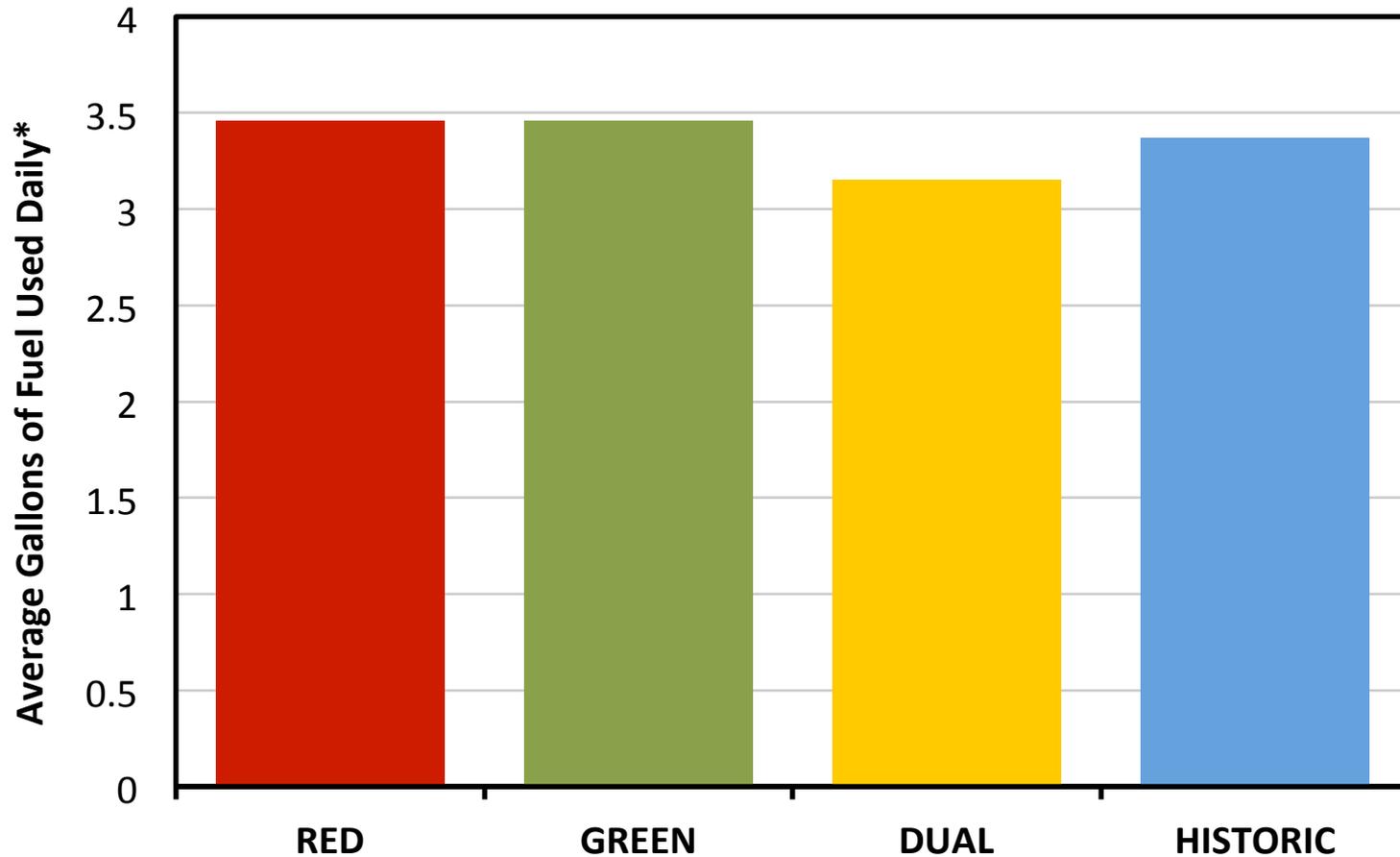
# Roundtrip Distance Traveled to Ride



# Primary Riding Days

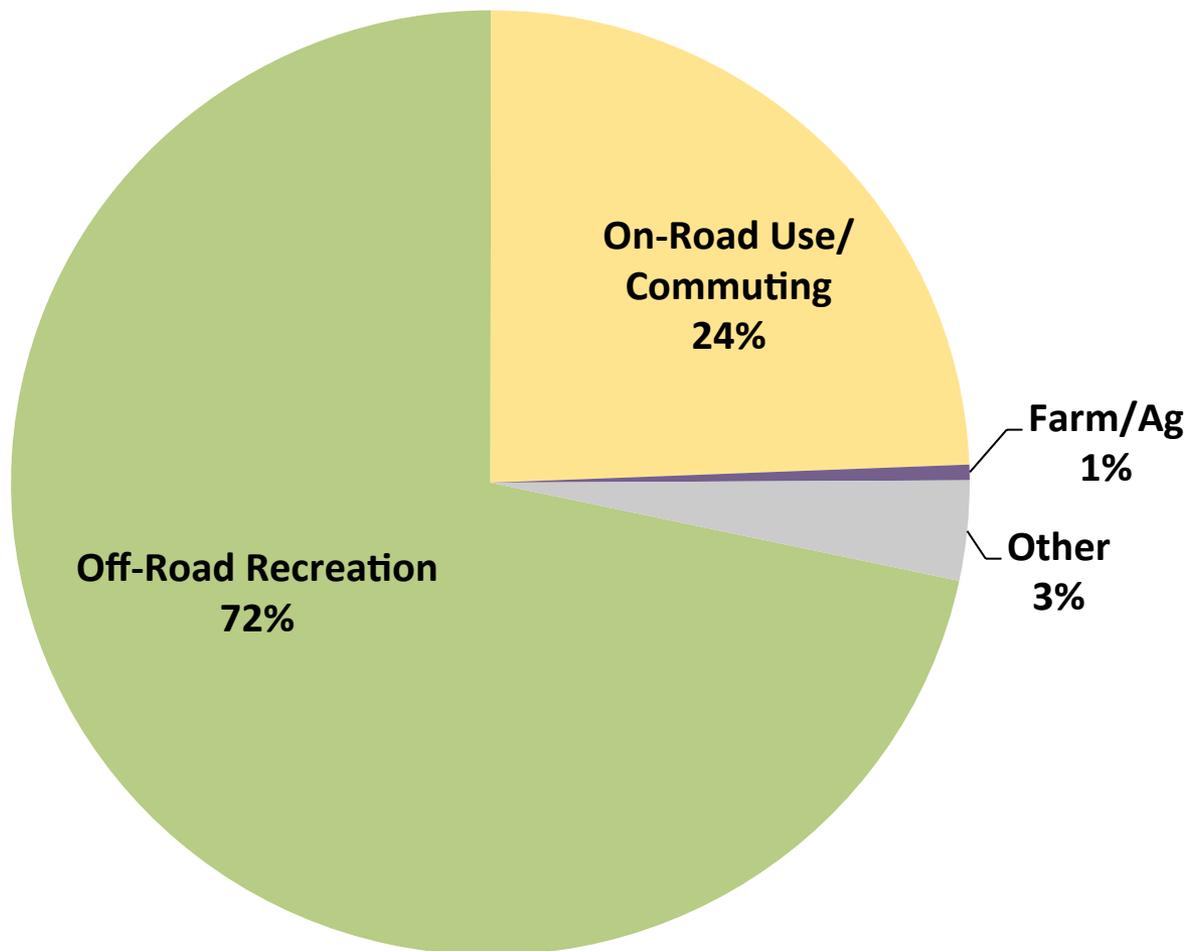


# Gallons of Fuel Used Daily\*



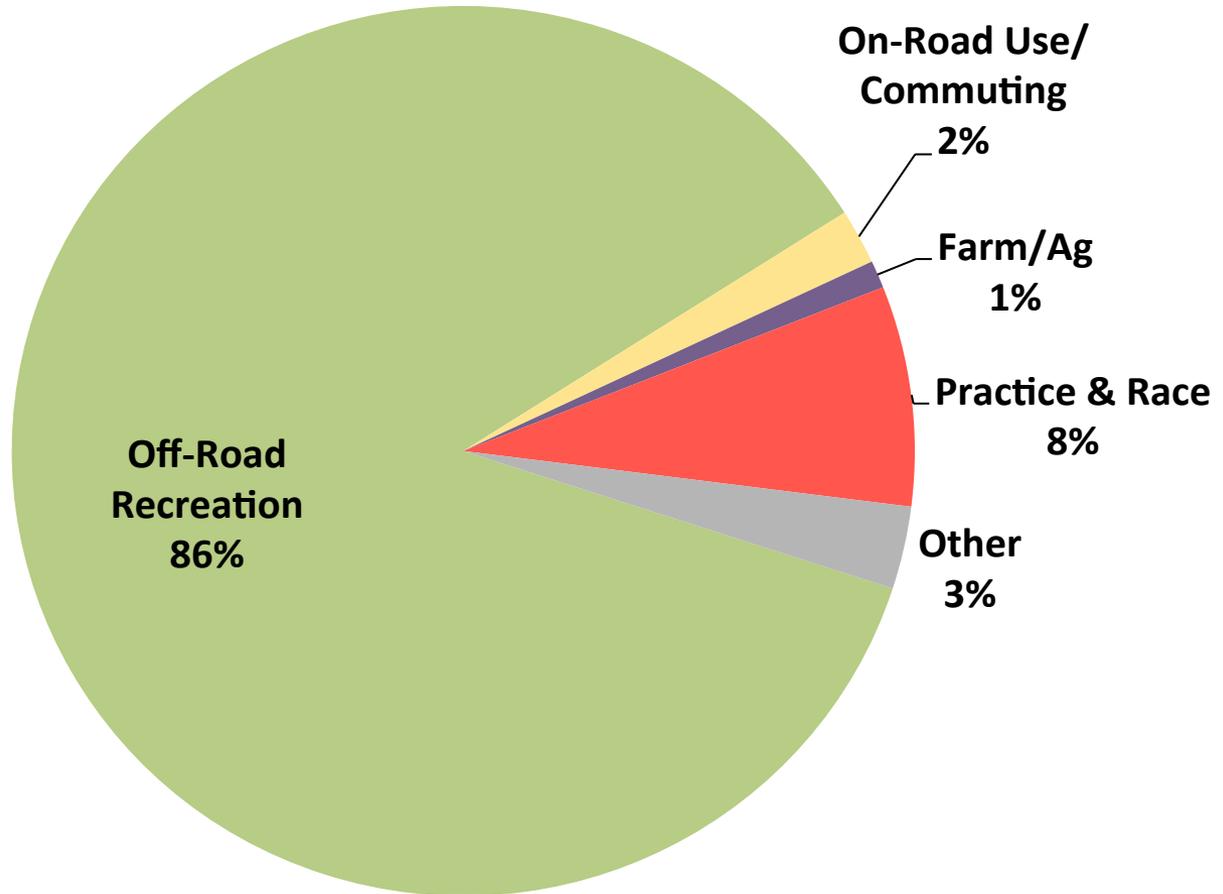
\* Daily fuel usage during typical day of off-highway riding

# Dual Sport Time Allocation by Riding Activity

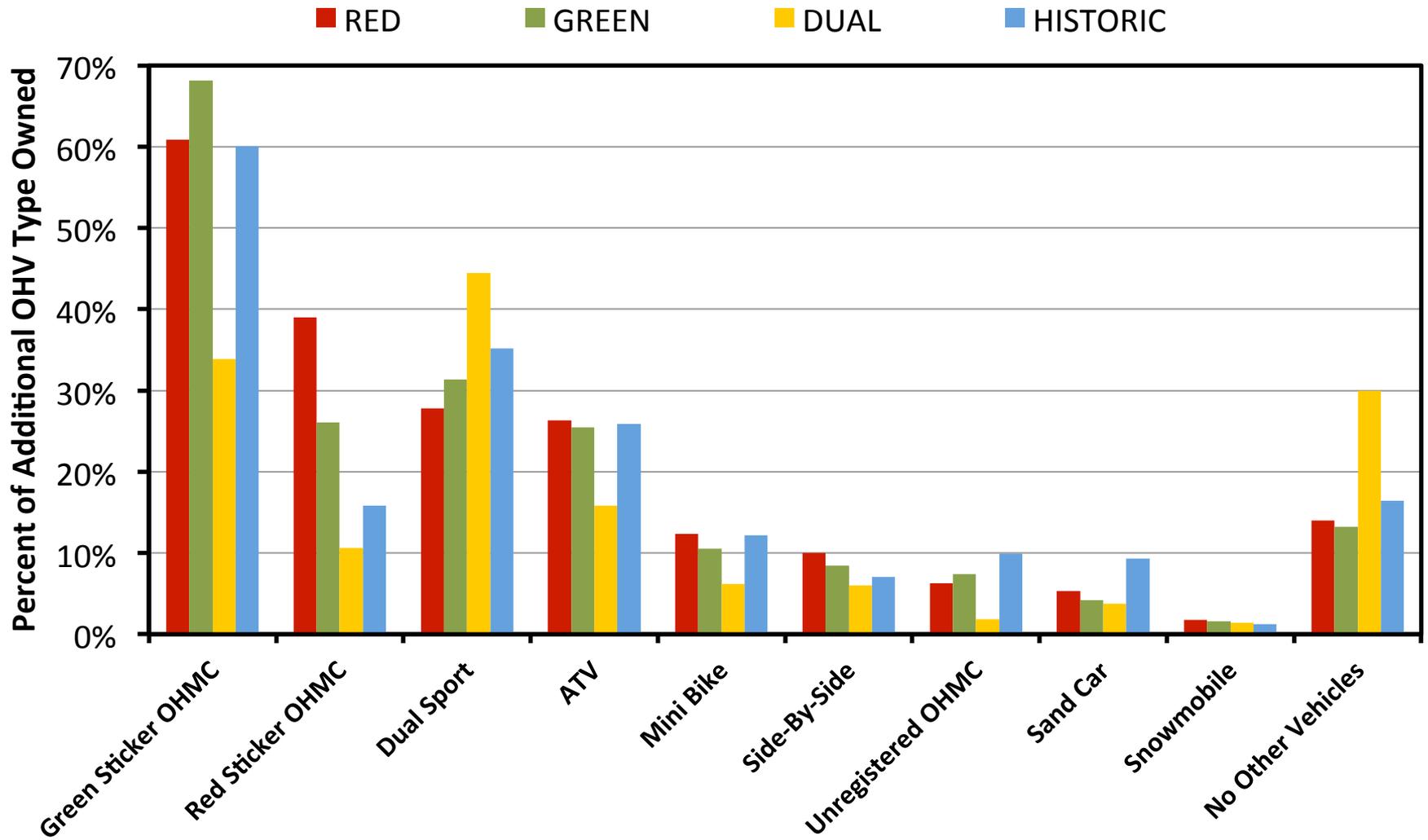


# OHMC Time Allocation by Riding Activity

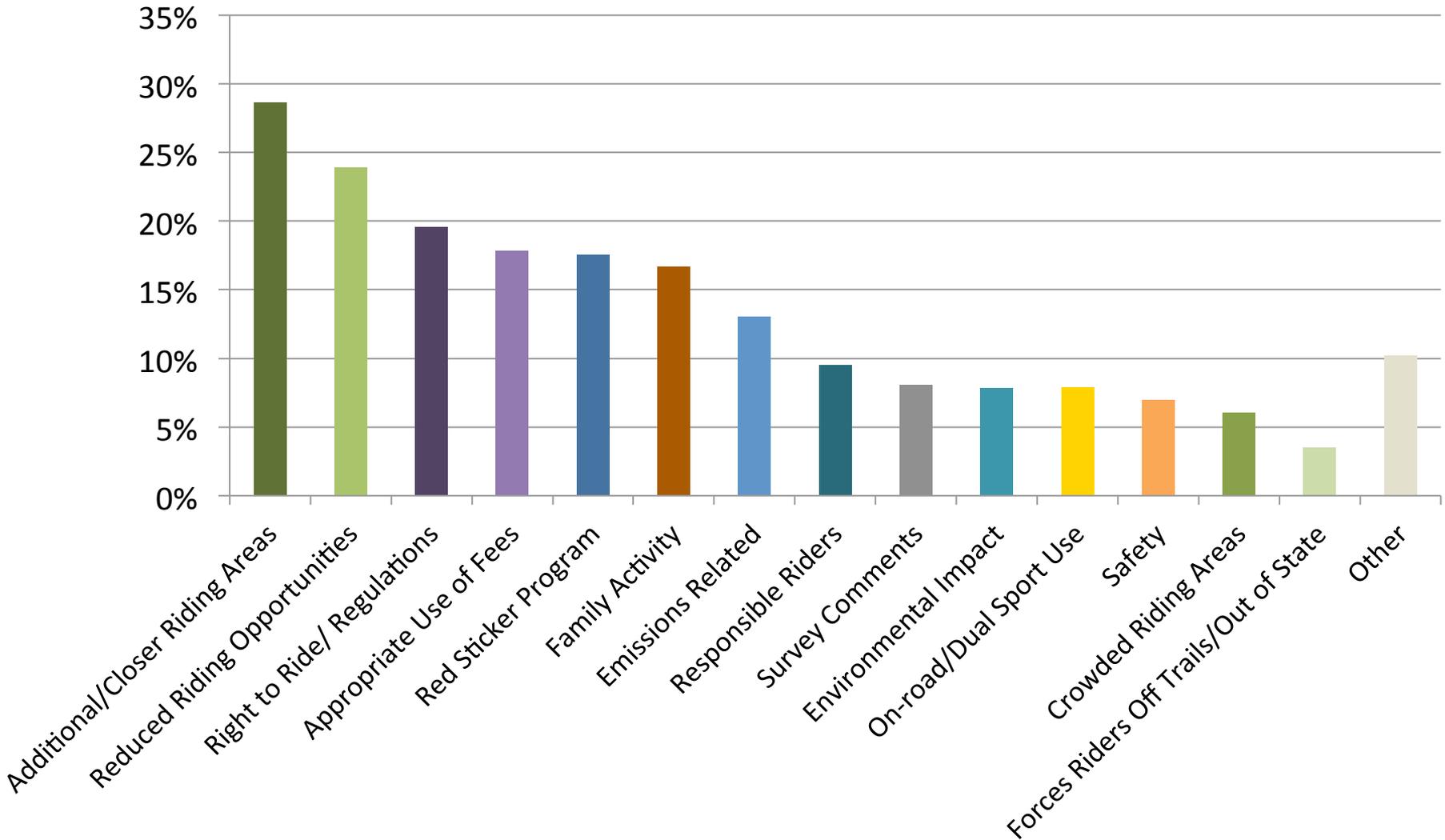
Green, Red, Historic



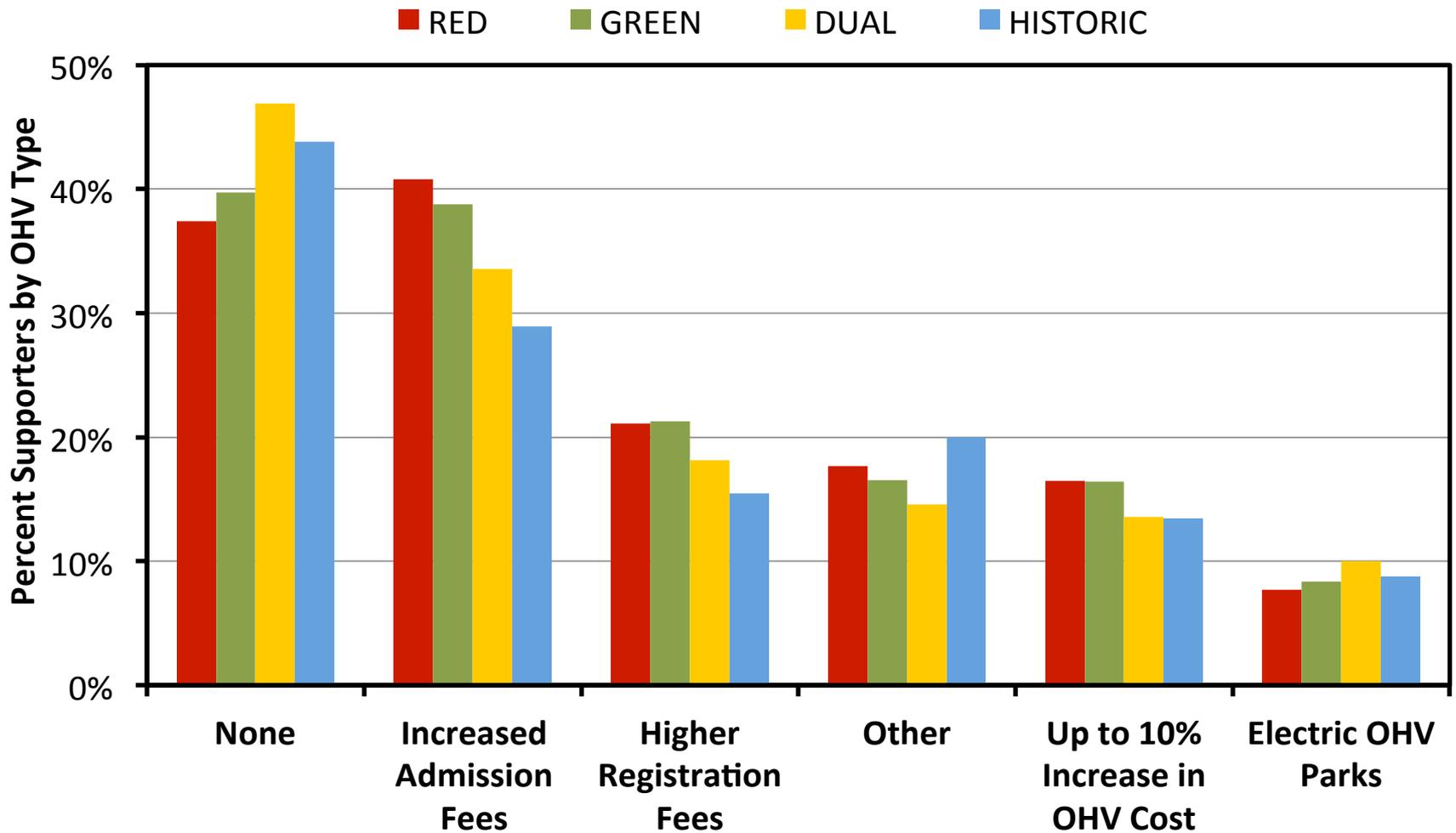
# Additional OHVs Owned



# Open-Ended Response Trends



# Support for Increased Riding Areas



# Major Findings

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- ▶ Riding area preference differs based on vehicle type
  - ▶ Red and green sticker riders prefer SVRAs
  - ▶ Dual sport riders prefer USFS
- ▶ Dual sports are primarily used off-road
- ▶ Over 85% of red, green and historic OHMC riders own an additional OHV
- ▶ Cost does not significantly influence riding area preference
- ▶ Riders were most concerned with riding area availability
- ▶ Approx. 35% of riders would support increased admission fees

# Presentation Outline

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- ▶ OHMC Survey Results
- ▶ **OHV VIN Decoder Update**
- ▶ Next Steps



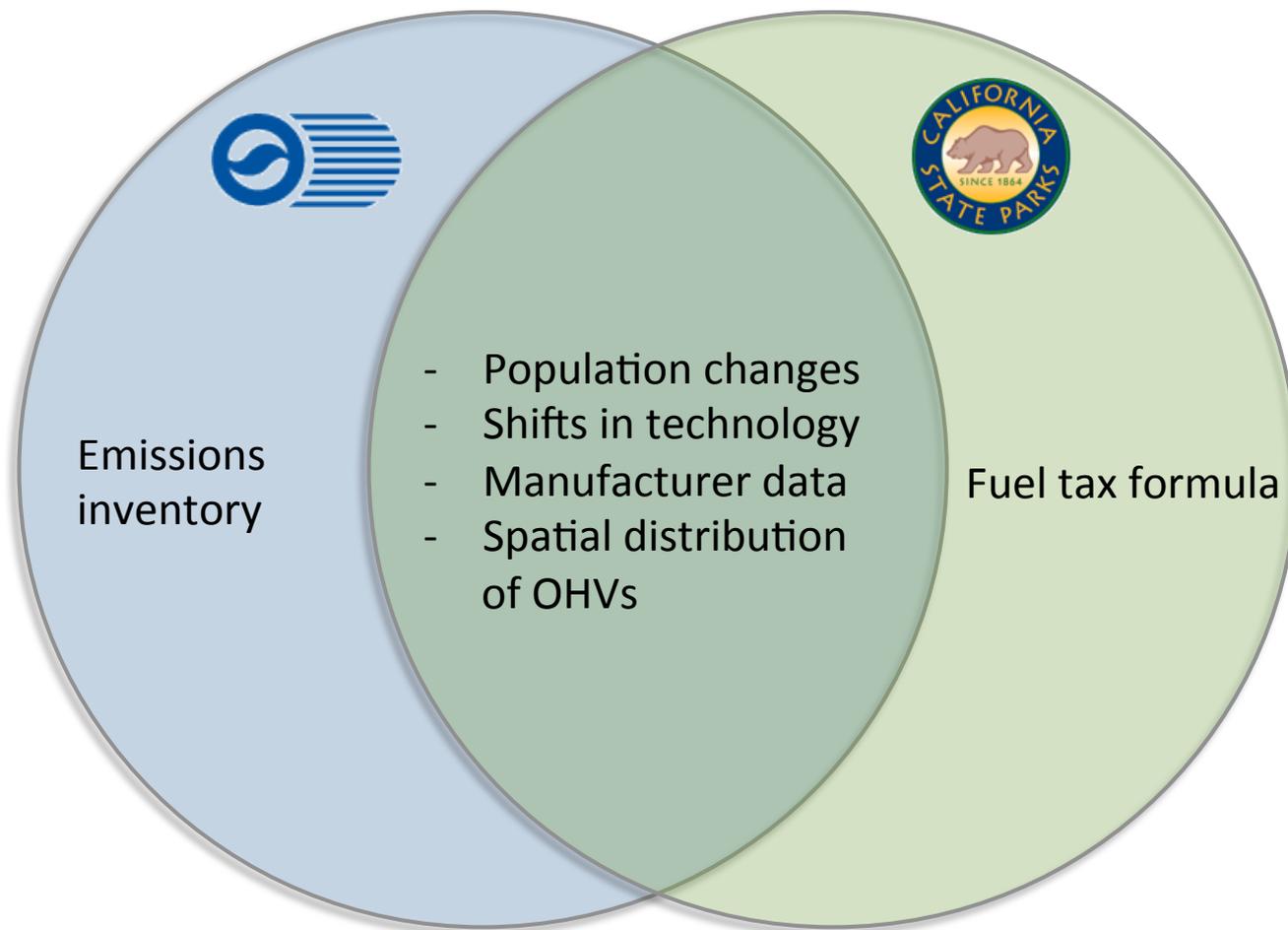
# VIN Decoder Development

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- ▶ ARB is developing an OHV vehicle identification number (VIN) decoder
  - ▶ Used to identify vehicle makes, models, and model years from DMV database
- ▶ No software currently exists to adequately decode OHV VINs
  - ▶ Current options are basic, outdated, and/or incomplete
- ▶ The VIN decoder is an important tool for determining statewide population of OHVs
  - ▶ Working with other State agencies to resolve concerns over inconsistent population numbers

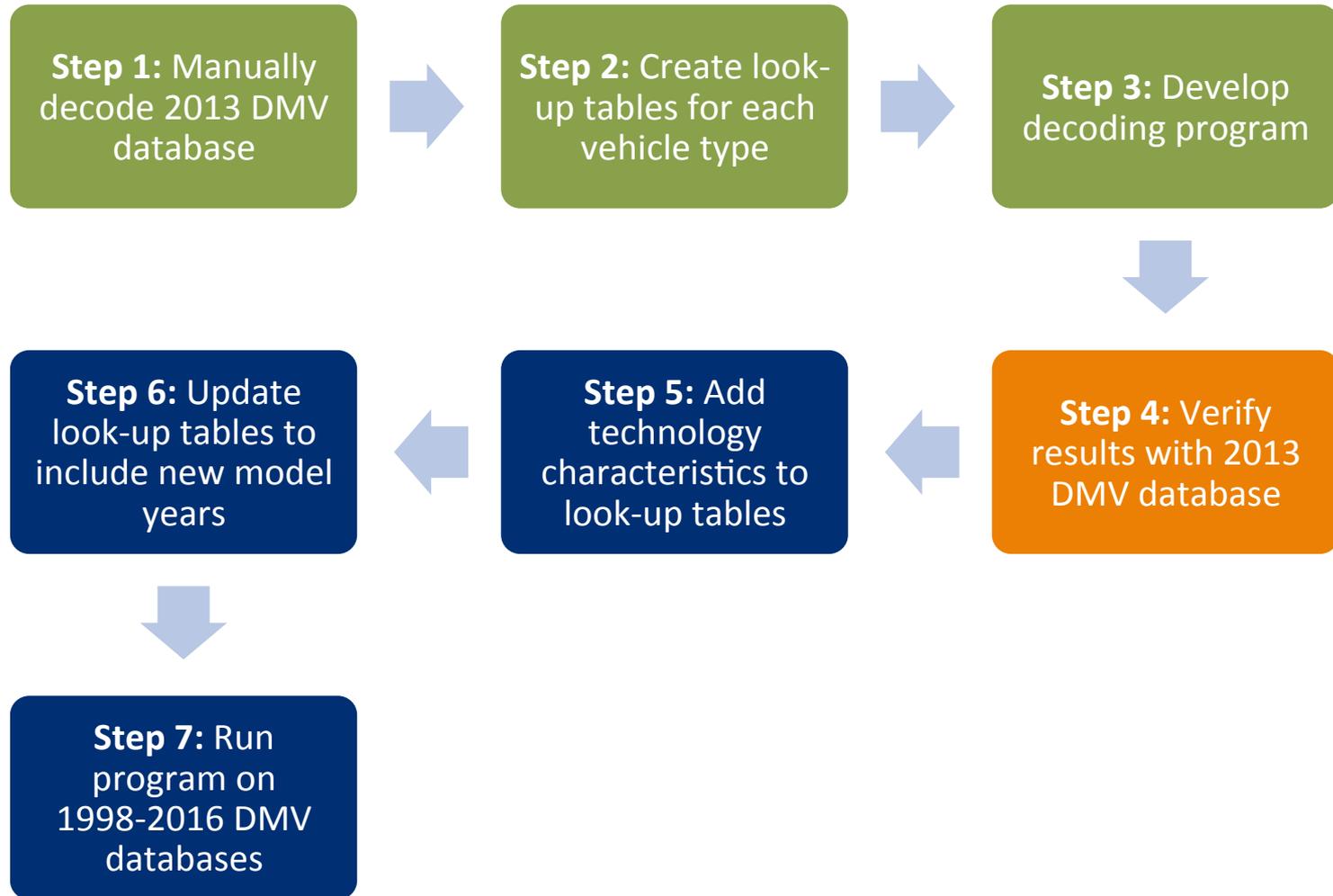
# Need for OHV VIN Decoder

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# VIN Decoder Development Process

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# Presentation Outline

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- ▶ OHMC Survey Results
- ▶ OHV VIN Decoder Update
- ▶ **Next Steps**

# Next Steps

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- ▶ Conduct in-depth analysis of survey responses
- ▶ Complete VIN decoder
- ▶ Host a workshop to share final survey data (Early 2017)
- ▶ Work with stakeholders to develop a solution for the red sticker program

# ARB Staff Contact Information

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## Monitoring and Laboratory Division

- ▶ Cassie Lopina – Air Pollution Specialist – Red Sticker Project Lead  
(916) 322-2411, [cassandra.lopina@arb.ca.gov](mailto:cassandra.lopina@arb.ca.gov)
- ▶ Katie George – Air Pollution Specialist  
(916) 322-4738, [kathryn.george@arb.ca.gov](mailto:kathryn.george@arb.ca.gov)
- ▶ Scott Bacon – Manager  
(916) 322-8949, [scott.bacon@arb.ca.gov](mailto:scott.bacon@arb.ca.gov)

For more information and to sign up for our list serve, please visit:  
<http://www.arb.ca.gov/msprog/offroad/orrec/orrec.htm>



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# Questions?

