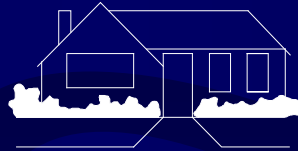


CARY, NORTH CAROLINA



Town of Cary Vehicle Operations Projects

**Matt Wetherell,
Operations Coordinator**

Agenda

- **Fleet Efficiency Standard Procedure**
- **Vehicle Right Sizing**
- **Vehicle Pool System**
- **Telematics**

FLEET EFFICIENCY STANDARD PROCEDURE

Fleet Efficiency Standard Procedure

- **Reviewed with all employees**
 - **Vehicle Selection**
 - **Utilization of Vehicles**
 - **Efficient Driving Habits**
 - **Maintenance**
 - **Route Selection**
 - **Annual Reporting**

VEHICLE RIGHT SIZING

Vehicle Right Sizing

- **Sustainable Fleet Team
Analysis of Replacement and
New Vehicle Requests**
 - **Life cycle cost analysis, review
vehicle specs**
- **Review alternate vehicles**
- **Approximately 20 vehicles
right sized annually**

VEHICLE POOL

Vehicle Pool System

- **PoolCar**
 - Cloud based vehicle reservation system
- Operating since October 2015

The screenshot shows the PoolCar web application interface. The browser address bar displays the URL <https://townofcary.poolcar.com/NewCal.aspx>. The page title is "New Booking - Asset Avail...". The navigation bar includes links for "My Reservations", "New Reservation", "Reports", "Feedback", "Sysadmin", and "Sign Out". The main heading is "New Reservation - Search for Availability - Mon 5/18/2015".

The search filters on the left include:

- Date required: 5/18/2015
- TOWNHALL
- Parking Deck
- Any department -
- Advanced search options: Suv
- Exclusivity: Fleet, General Pool

The search results show 4 asset(s) found for your search. Displaying 1 to 4. The table below shows the available assets:

Time	Asset 1	Asset 2	Asset 3	Asset 4
3 PM	Parking Deck POOL, Suv White Blazer Veh#: 1726	Parking Deck POOL, Suv White Blazer Veh#: 1805	Parking Deck POOL, Suv White Blazer Veh#: 1939	Parking Deck POOL, Suv White Escape Hybrid Veh#: 2857
15				
30				
45				
4 PM				
15				
30				
45				
5 PM				
15				
30				
45				
6 PM				
15				
30				
45				
7 PM				
15				
30				
45				

At the bottom, there is a "Show 25 assets per page. Change this if you have a wide screen." option.

Vehicle Pool System

- **Why Pool?**

- Identified under utilized vehicles
- Departments without vehicles constantly borrowing

- **Goals**

- Create an easy, accessible, and reliable pool car system
- Give staff access to more variety of vehicles
- Analyze vehicle usage to right-size the fleet

Vehicle Pool System

- Why PoolCar?
 - Easy to use interface
 - Provides necessary report
 - Key management hardware
 - Price



Vehicle Pool System

- **Process**
 - Make Reservation
 - Get confirmation number, email
 - Retrieve key from KeyMaster
 - Vehicles parked in assigned spots
 - Keys have fuel cards

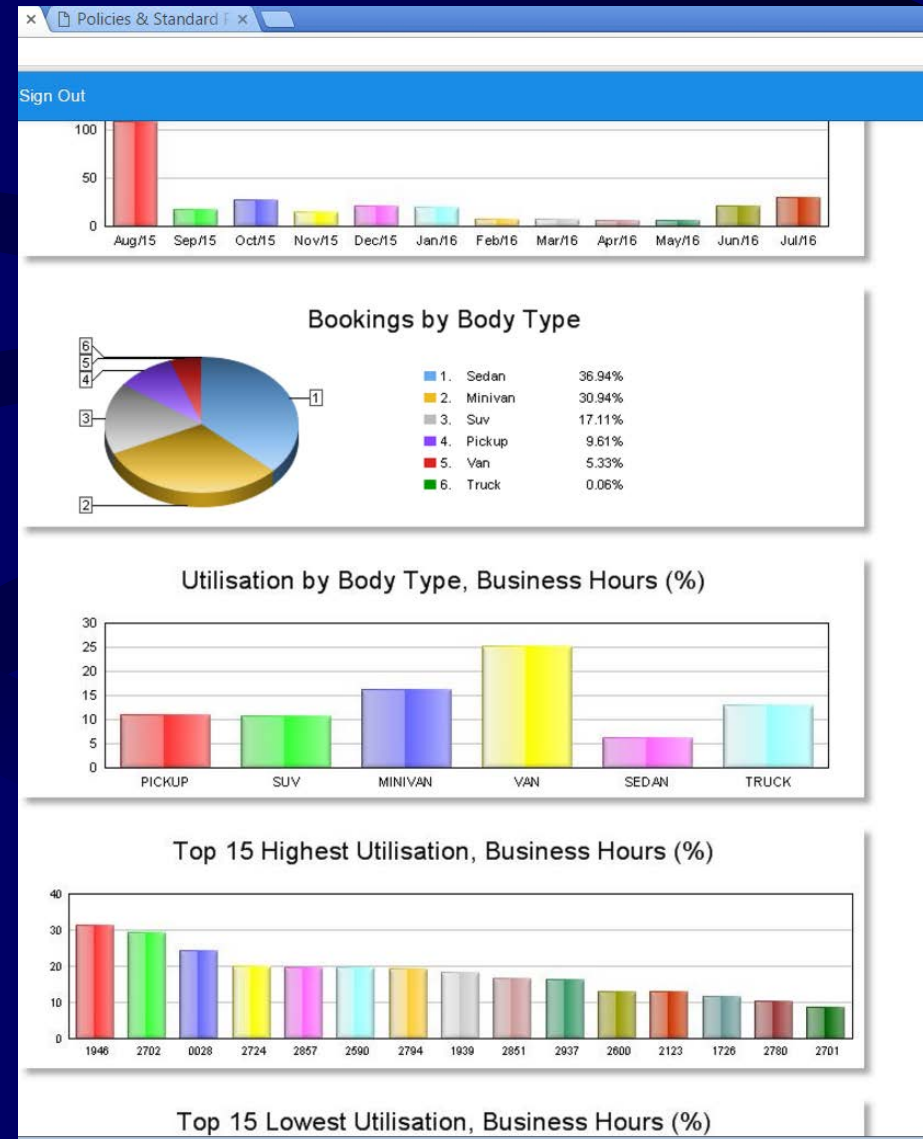
The screenshot shows a web browser window with the URL <https://townofcary.poolcar.com/NewCal.aspx>. The page header includes the "POOL-CAR" logo and "TOWN of CARY". A navigation bar contains links for "My Reservations", "New Reservation", "Reports", "Feedback", "Sysadmin", and "Sign Out". The main content area is titled "New Reservation - Search for Availability - Mon 5/18/2015". On the left, there are search filters: "Date required:" set to 5/18/2015, "TOWNHALL" as the location, "Parking Deck" as the department, and "Suv" as the vehicle type. On the right, a table displays search results for 4 assets. The table has columns for location, vehicle type, and vehicle number, and rows for time slots (3 PM, 4 PM, 5 PM) with sub-slots for 15, 30, and 45 minutes.

	Parking Deck POOL Suv White Blazer Veh#: 1726	Parking Deck POOL Suv White Blazer Veh#: 1805	Parking Deck POOL Suv White Blazer Veh#: 1939	Parking Deck POOL Suv White Escape Hybrid Veh#: 2857
3 PM				
15				
30				
45				
4 PM				
15				
30				
45				
5 PM				
15				
30				
45				



Vehicle Pool System

- **Lessons Learned**
 - Surveys
 - Refueling Issue
 - Maintenance/Cleanliness
- **Next Steps**
 - Waiting to get one full year of data before adjusting size of pool



VEHICLE TELEMATICS

Vehicle Telematics

- **Pilot program in 2013**
- **Purchased with Clean Fuel
Advanced Technologies Grant**
- **57 vehicles**

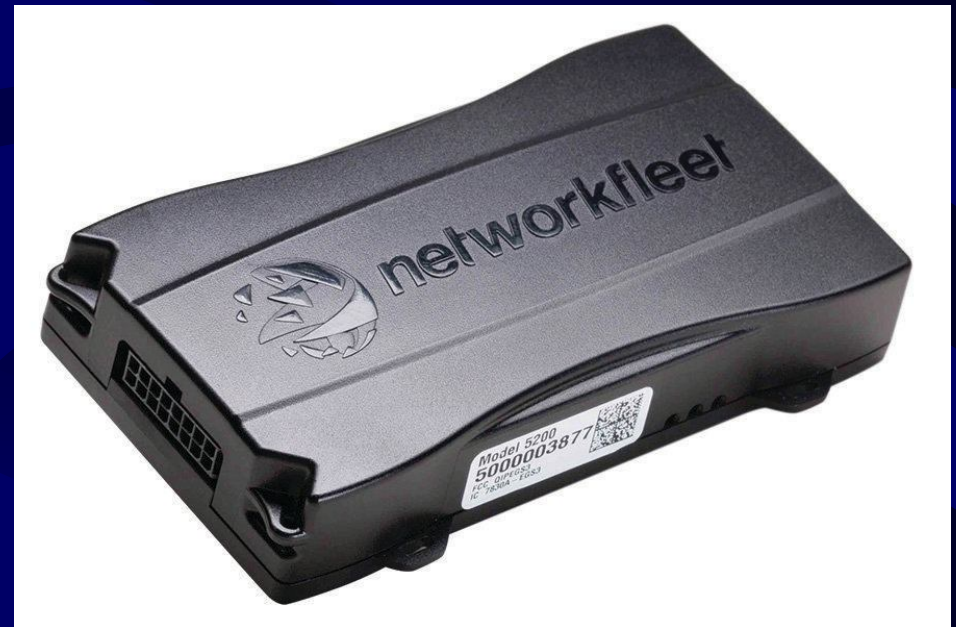
Goals of the Telematics Program

Conserve fuel through eco-driving, efficient routing, and reducing idle time for Town vehicles



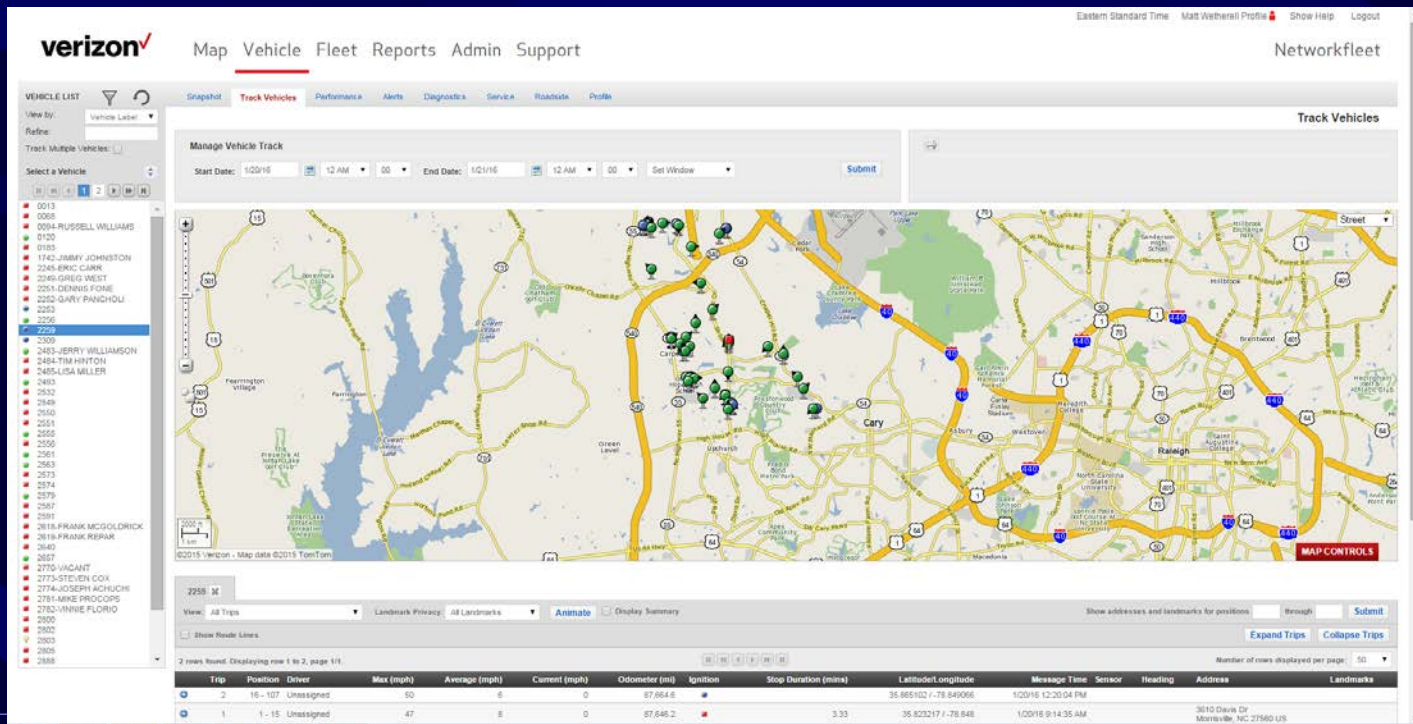
Vehicle Telematics

- Utilize Verizon NetworkFleet
 - Ease of use
 - Reporting/Monitoring capabilities
 - Idling
 - Speeding
 - Vehicle Location
 - Vehicle Issues
 - Price



Vehicle Telematics

- Alerts set up for idling, speeding, geofence

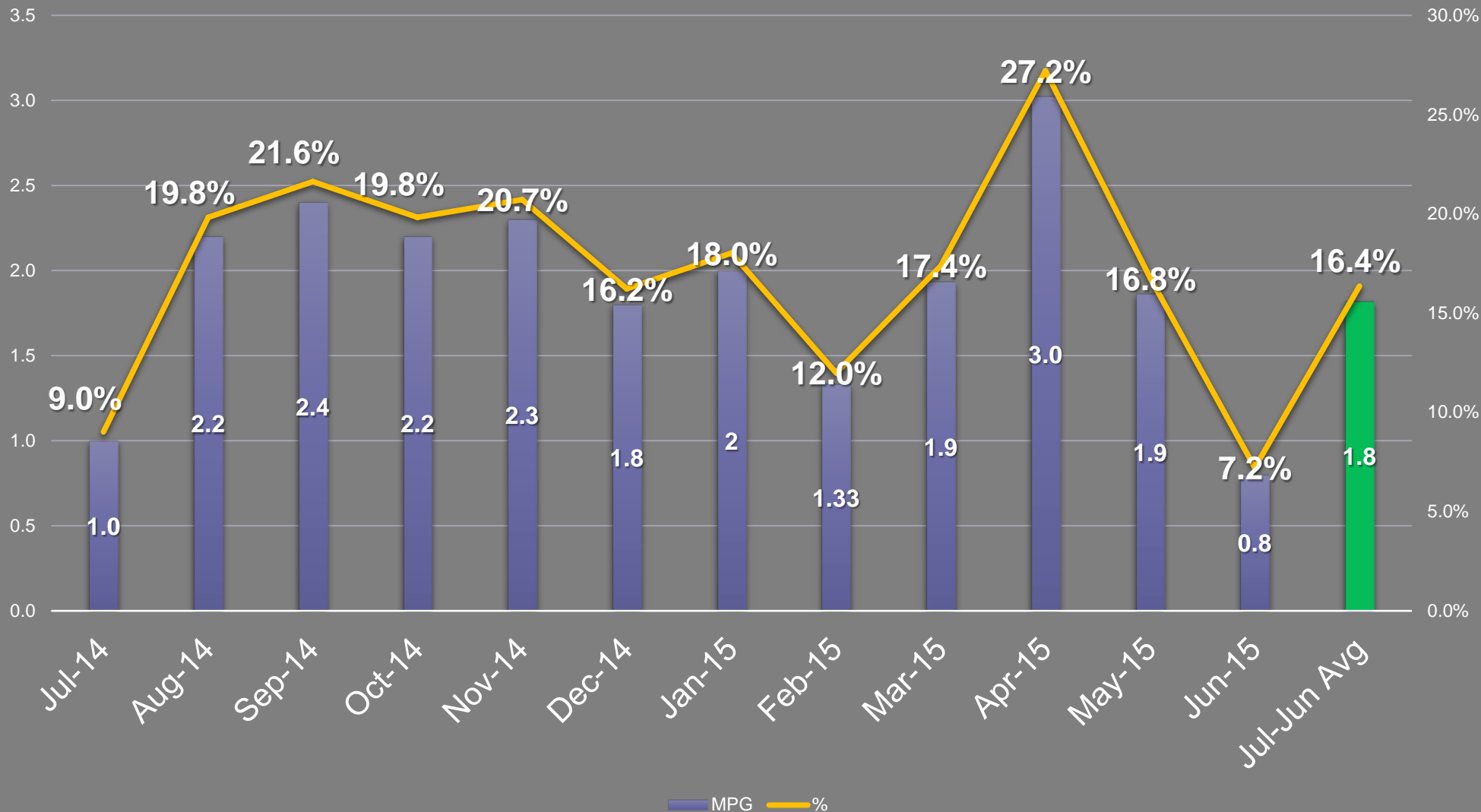


Bottom Line Up Front

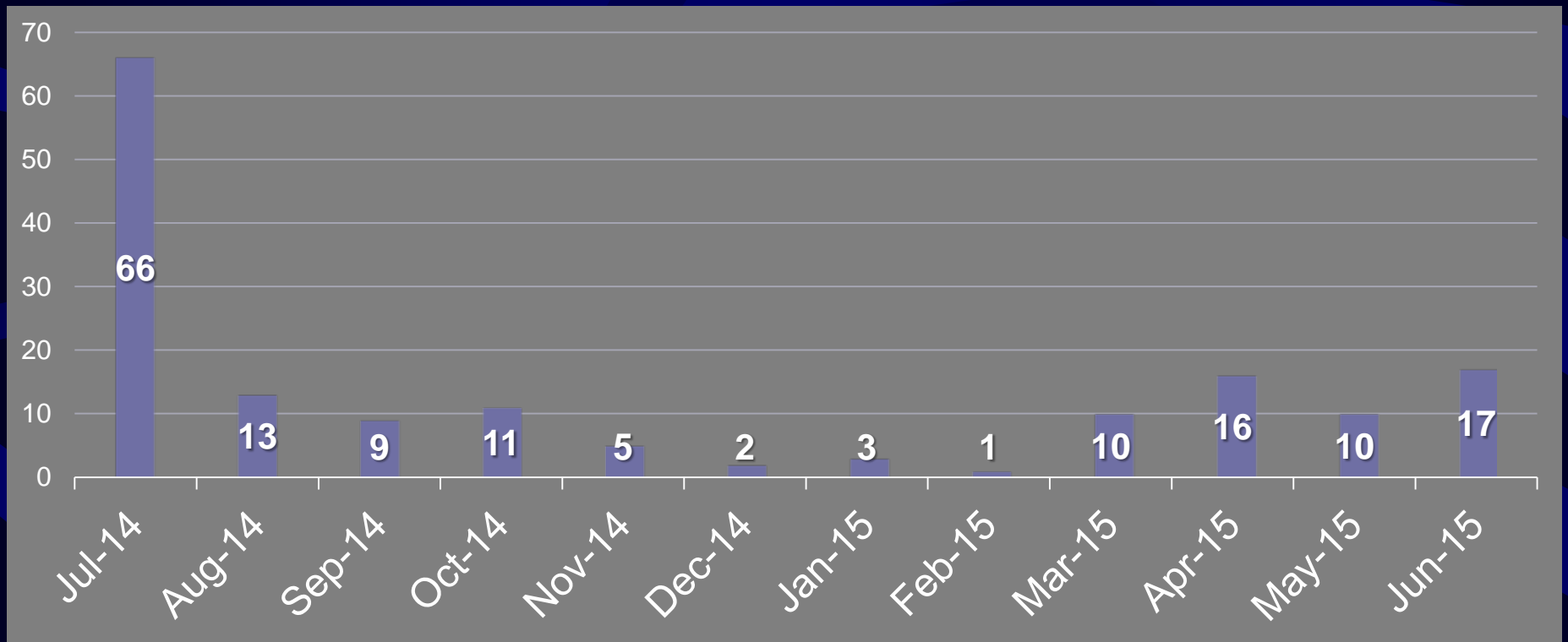
- **After one year:**
 - **16.4% Overall average increase in MPGS**
 - **Peaked at 27.2% increase in MPGs in April**
 - **Reduced fuel consumption by calculated 6,115 gallons**
 - **42 of 57 vehicles have overall average increase in MPG**
 - 7 trucks with 20-29.9% increase in MPGs
 - 8 trucks with 30%+ increase in MPGs

Vehicle Performance

Δ in MPGs (Gallons and %)
Month Compared to Baseline 11.1 MPG

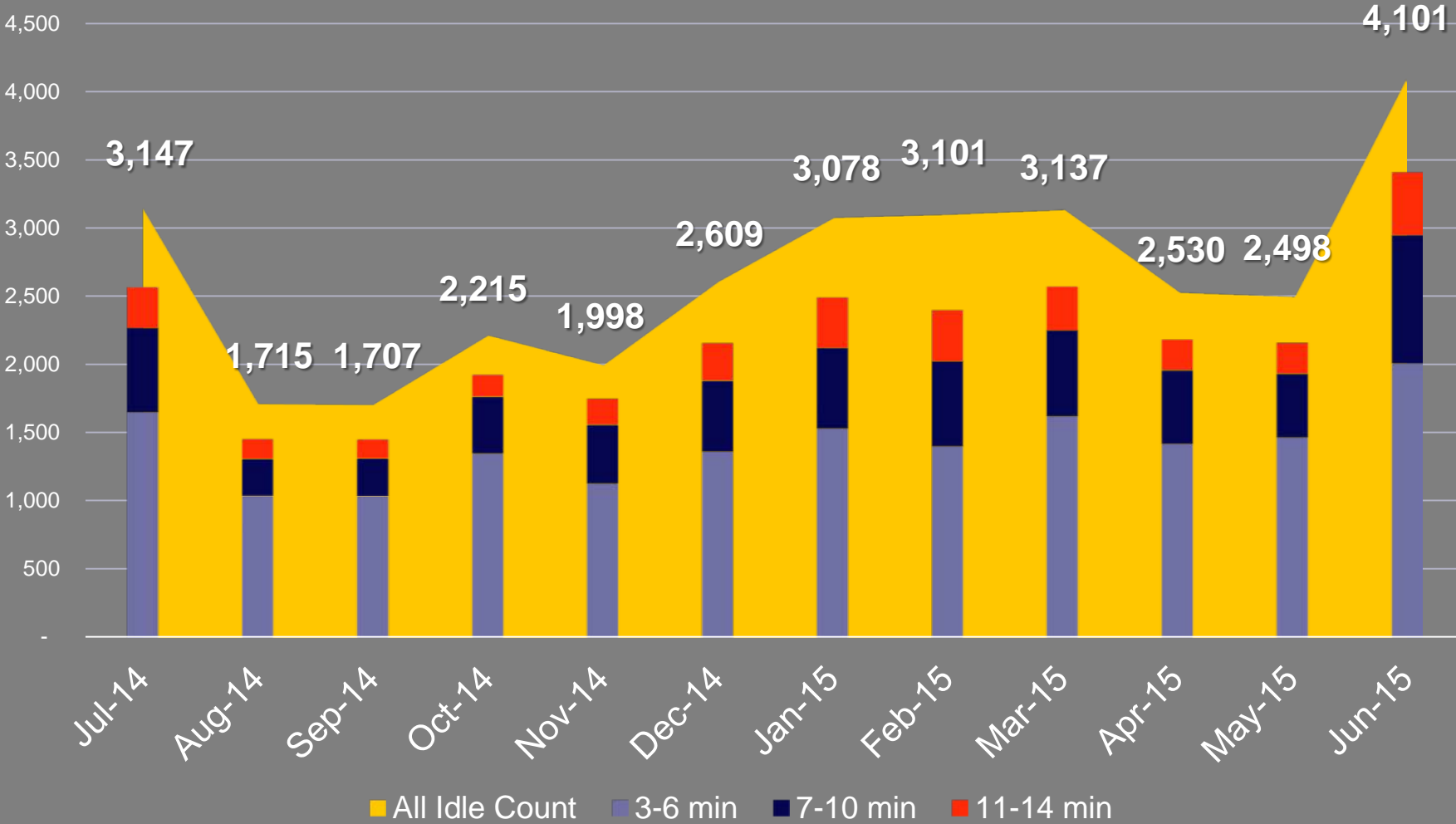


Counts of Speeding: 7+ MPH over posted, over 1 min in length



Idle Time

Monthly Count of Idle Events over 3 Minutes in Length



Vehicle Telematics

- **Lessons Learned**
 - **Over coming “Big Brother”**
 - **Disciplinary Procedure**
 - **Constant Communication, Share Data with Staff**
 - **Rewards for Vehicle Performance**

Questions?

My Contact Info:

Matt.Wetherell@TownOfCary.org

919-469-4394