



**GRAEVES**  
AUTO & TIRE  
Family owned and operated  
serving Montgomery County  
since 1952...

# the Shop Rag

A monthly publication filled with industry news, maintenance and safety tips, upcoming events, special coupons, and more!



## Using AI and Big Data to Improve Traffic Flow...

Many in the Information Technology world have been hearing more and more about Artificial Intelligence, Machine Learning, and Big Data Analytics. These technologies are now being looked at to help improve the increasing traffic conditions around the world.

Using cameras, meters and large amounts of streamed data, we can apply traffic algorithms to produce real time traffic adjustments that will control streetlights and traffic flows to efficiently move traffic through major cities and



highways. The monitoring and data collection for our roadways has existed for decades. What we are now able to do with this data is the key to traffic management and improvements. An added benefit to reduced travel times will be reductions in vehicle emissions.

There are many projects underway throughout the world to help develop this technology. The ability to differentiate types of traffic (e.g., public transportation, delivery trucks, emergency vehicles, etc.) are also being addressed and prioritized, as well as parking options. The future depends on this type of technology to prevent gridlock in our major cities.



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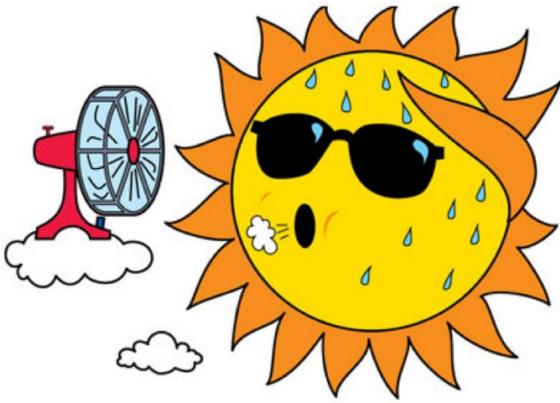


**Congratulations Class of 2021!**

*See page 3 for this month's special deal!*



**Graeves Auto & Tire**  
is a AAA approved auto repair center.  
For more information, please visit:  
[www.graevesauto.com](http://www.graevesauto.com)



## Car Safety Tip of the Month!



### Here comes that Summer heat!

As the outdoor temperature continues to rise, the interior temperature of your car can become deadly. Even an outside temperature of 70° F can produce a life-threatening interior temperature. During this time of year, it is especially important to take extra precautions when traveling with children and family pets.

Estimated Vehicle Interior Air Temperature v. Elapsed Time

Elapsed time	Outside Air Temperature (F)					
	70	75	80	85	90	95
0 minutes	70	75	80	85	90	95
10 minutes	89	94	99	104	109	114
20 minutes	99	104	109	114	119	124
30 minutes	104	109	114	119	124	129
40 minutes	108	113	118	123	128	133
50 minutes	111	116	121	126	131	136
60 minutes	113	118	123	128	133	138
> 1 hour	115	120	125	130	135	140

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## 4th of July Fireworks??

For the latest updates on Fireworks this year, visit:

<https://www.visitmaryland.org/article/4th-of-july-celebrations>

**As of June 27, here are a few Maryland areas with scheduled firework displays:**

Deep Creek, Boonsboro, Williamsport, Hagerstown, Cumberland, Columbia, Frederick, Annapolis, LaPlata, Chesapeake City, Kent Island, Rock Hall,

Easton, St. Michaels, Centreville, Crisfield, and Ocean City.

### Here are a few important facts for the 4<sup>th</sup>:

- Each year, fireworks in the United States cause approximately twelve deaths, 2000 serious eye injuries, and 5000 other injuries.
- Sparklers burn at 1,800 degrees Fahrenheit!
- In Montgomery County, all fireworks are illegal to possess or discharge including gold label sparklers. Snap-and-pop noise makers, snakes, and party poppers are the only exception to this law.

### Maryland's Fireworks Laws:

- Fireworks include any firecracker, skyrocket, or Roman candle. Toy caps are only permitted if the explosive content is under .25 grains and they are designed so the hand cannot come in contact with the cap when in use.
- In Maryland, private use and possession of fireworks, including sparklers, is illegal and carries a \$500 fine.
- It is against the law to sell fireworks in Maryland, and carries a \$1,000 fine.
- Public fireworks displays require proper permits and insurance.

## Did You Know?

The tentacles of the giant arctic jellyfish can reach 36.6 meters (120 feet).

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African Grey Parrots have vocabularies of over 200 words.

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Before 1863 the postal service in the US was free.

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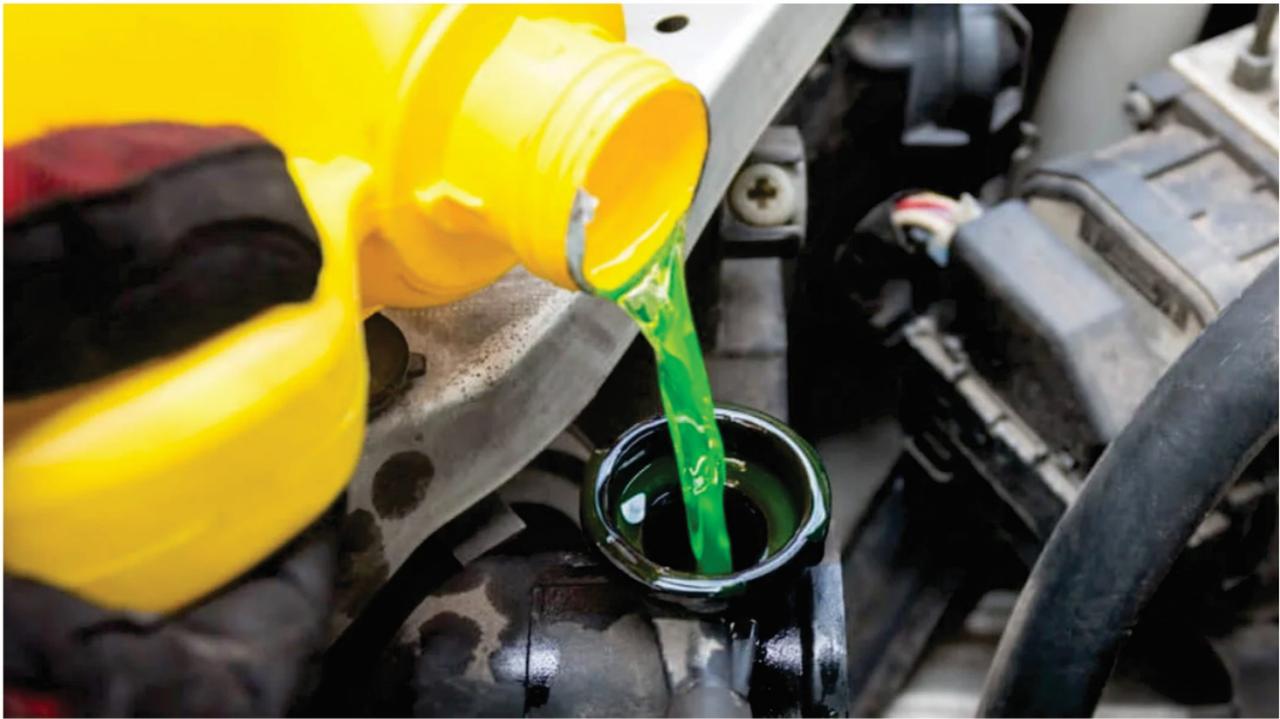
In 1900 the average life span in the US was 47.

**JULY**



# 10% Off A Complete Radiator Flush!

**at Graeves Auto & Tire!**



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**COUPON**

Print and bring this coupon with you to  
**Graeves Auto & Tire** at the time of service  
and receive **10% off a complete radiator flush.**

(This coupon may not be used in conjunction with  
any other promotions or coupons.)

**Coupon expires: July 31, 2021**

**COUPON**