

SIGNS OF ENCOURAGEMENT

Newberg woman's idea to spread positive messages catches on across the country



Twelve COVID cases tallied in baseball team out-break

By NICOLE MONTESANO  
Of the News-Register

Yamhill County reported another seven cases of COVID-19 on Thursday, bringing the county's total to 171, including at least 12 people connected to a Newberg youth baseball team that traveled to Roseburg for a Fourth of July tournament.


The virus continues to surge in Oregon, with a record 389 new cases Thursday for a total of 11,188, and six more deaths.

The percentage of tests coming back positive continues to increase, the Oregon Health Authority reported in its weekly update. It said that in the week of June 29 to July 5, the state saw a 51% increase in new cases, over the previous week.

The News-Review in Roseburg reported that four teams, including the Newberg team, withdrew

"We are working with families to provide guidance,

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# AUTOMOTIVE INFORMATION MONTHLY

JULY 2020

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# GOING GREEN: HYBRID AND ELECTRIC CARS

Thinking about buying an electric or hybrid vehicle? You’re not alone. According to the International Energy Agency (IEA), by 2030, there will be 125 million electric cars on the road. Here’s what you need to know about these eco-friendly vehicles.

## ELECTRIC VEHICLES

An electric vehicle runs purely on electric power and owning one comes with a number of advantages:

- Environmentally friendly—they emit no exhaust
- Inexpensive to fuel (between 10 and 20 times less than diesel or gasoline cars)
- Quiet and smooth to operate
- Powerful at low speeds
- Convenient to own as they can be charged at home

The main drawback to EVs is the time it takes to charge them. Plugged in to a slow wall plug charger (the most common type of at-home charging point), the average EV will take between six and 12 hours to fully charge. DC fast chargers, on the other hand, typically add 50 to 90 miles in 30 minutes. Charging time varies considerably depending on battery size, the speed of the charging point and the EV model.

## HYBRID CARS

Hybrid cars use both electricity and gasoline as fuel. Typically, a hybrid vehicle can charge its own batteries with its gas engine. Sometimes this is the engine’s sole function—to recharge the batteries powering the electric motor. In other hybrid types, the gas engine takes precedence and the electric motor adds a degree of electric drive.

Some hybrids are known as “plug-in” hybrids. These can be plugged in to the national grid like an EV, enabling an electric-only range (usually between 20 and 40 miles).

The main advantage to hybrid cars is that they reduce the amount of liquid fuel you use, thereby constituting a more environmentally friendly solution than purely diesel or gas cars. Plus, you don’t have the drawback of the long charging times characteristic of EVs. That said, they aren’t as green as EVs.

In sum, while each has their pros and cons, EVs and hybrids are both great options for environmentally conscious and thrifty drivers.



# WHAT AFFECTS AN EV’S RANGE?



If you’re worried about running out of juice, your car’s information system will warn you when the battery’s charge is low. However, it’s important to plan ahead to be safe. Always know how far you’re going and make sure that your battery is sufficiently charged to get you there and back.

If you purchase an electric vehicle (EV) with a 125-mile range, can you reasonably expect to drive that distance between each charge? Unfortunately, the answer is no. This is because the battery does more than power the engine. In fact, there are many factors that contribute to the battery’s range, including the following:

- 1

### ELECTRICAL SYSTEM

An EV’s battery is responsible for all the systems in the car. As a result, running the fan or entertainment unit will require some of the battery’s power.
- 2

### THE WEATHER

Cold or windy weather can reduce an EV’s range by up to 30 percent. This is largely due to the need to heat the car’s cabin and engine. Hot weather also affects range, but not to the same extent.
- 3

### WHERE YOU’RE DRIVING

Because many EVs use the power generated while braking to recharge the battery, driving in the city increases a car’s range while driving at a steady pace on the highway reduces it.
- 4

### THE LOAD YOU’RE CARRYING

As with any car, heavy loads are less economical to carry. In order to optimize your car’s range, don’t stow unnecessary items in the trunk.

# HOW TO CHOOSE AN ELECTRIC VEHICLE

Are you thinking about purchasing an electric vehicle (EV)? If so, consider your needs before making a decision. Here are the key factors to keep in mind.

Most EV owners install a 240-volt charging station at home. If you do the same, you’ll have no problem recharging yours on a daily basis.

Alternatively, if you rely on public charging stations to power your car, it’s best to locate one close to your home and/or your place of work. It’s crucial to ensure that you always have enough range left to get to the station.

There are a wide variety of EVs and PHEVs on the market right now, with more being released every year. So, whether you prefer a compact car, a mid-sized sedan or an SUV, there’s an electric vehicle that’s right for you.

If you have a short daily commute, almost any type of electric vehicle will have sufficient range to get you where you need to go.

However, if you tend to regularly drive long distances, you may be better off with a plug-in hybrid electric vehicle (PHEV). This type of car uses gas to keep you going once the battery is depleted.

In addition, if you love to escape to the cottage or take frequent road trips, a long-range EV or PHEV may be a better option to get you where you’re going.

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