



Keep Oil Where It



BELONGS

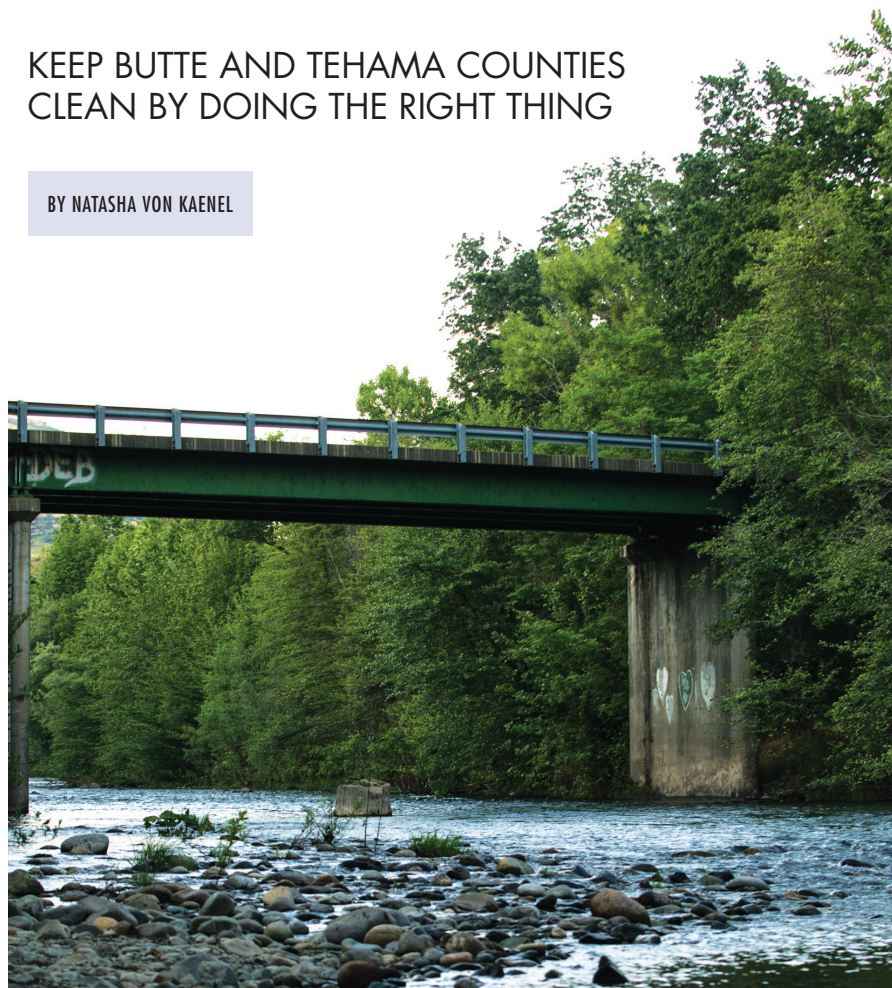


MAKE SURE BUTTE AND TEHAMA
COUNTIES STAY CLEAN –
**DO YOUR PART TO RECYCLE
USED MOTOR OIL**

It's Not Hard to RECYCLE OIL

KEEP BUTTE AND TEHAMA COUNTIES
CLEAN BY DOING THE RIGHT THING

BY NATASHA VON KAENEL



Honey Run Covered Bridge crossing of Butte Creek
PHOTO AND COVER PHOTOS BY EMILY TEAGUE

If you're like one in five Californians who change their vehicle's oil themselves, you take great pride in doing the job. And doing it right.

That's why you never skip the final step in the oil change process: proper recycling.

Even if you take your car to a lube shop (or even if your car is a tractor), everyone can do his or her part to make sure oil is properly used and recycled.

Why is recycling motor oil important? It's one of the largest hazardous waste streams in California (115 million gallons of the stuff are sold in California each year). Motor oil is used in 34 million vehicles in California, not to mention all of the machinery needed to operate the agricultural industry in our state.

Once that oil has done its job, proper disposal is necessary to keep our waterways and agricultural land clean. According to environmental experts, as little as 1 gallon of improperly disposed motor oil can contaminate around 1 million gallons of drinking water with toxic substances, including benzene, lead, zinc and cadmium. These substances are toxic to plants and marine life, hindering photosynthesis processes and oxygen replenishment. Used motor oil can also impact soil productivity, and if even a small amount reaches a sewage treatment plant, it can pollute the entire water treatment process.

The good thing is that environmental harm can be avoided because oil is easily recycled and reused.

"Oil doesn't really wear out. It just gets dirty," says Mark Oldfield, Communications Director at CalRecycle. "The recycling of oil

"You don't want this oil in your drinking water. You don't want it in your soil."

MARK OLDFIELD
Communications Director, CalRecycle

cleans it so that it can be used again. That means less of it has to be pumped out of the ground."

CalRecycle (the agency that administers the California Oil Recycling Enhancement Act) works to incentivize the recycling of used motor oil by helping fund local educational campaigns around oil recycling and promoting the production and use of rerefined oil. Recycling your oil could also mean more money in your pocket, as consumers are eligible to receive 10 cents per quart when they take their used oil to a certified collection center.

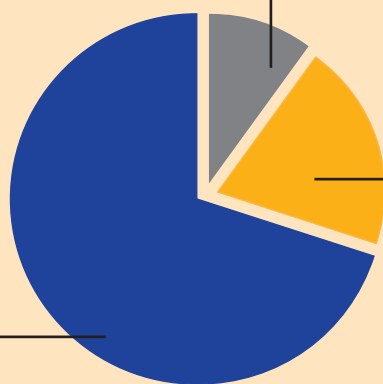
In Butte, Tehama and Glenn counties combined, there are 47 certified collection centers, all found on CalRecycle's website, www.calrecycle.ca.gov/UsedOil. Recycling is so much easier than the alternative, Oldfield says.

"You don't want this oil in your drinking water. You don't want it in your soil."

WHERE DOES USED OIL GO?

In 2010:

Roughly **70%** of the lubricating oil sold in California was recycled



Roughly **13 million gallons** of oil were illegally and improperly disposed of or directly dumped into lakes and streams.

20% leaked out of engines or was burned off through use.

Used motor oil can contain **toxic substances** such as benzene, lead, zinc and cadmium.



If dumped on land, motor oil **reduces soil productivity.**



If dumped in waterways, **1 gallon of used motor oil** can contaminate **1 million gallons of drinking water.**



Drivers should really be paying attention to two words: manufacturer's recommendations.

Brian Guynn, who owns two Jiffy Lube locations in the Chico area, tells customers to pay attention to the manufacturer's recommendations for how often to change their vehicle's oil.
PHOTO BY EMILY TEAGUE



CHECK YOUR NUMBER

107628

Pull the owner's manual out of your glove box and find your vehicle's recommended oil change interval. Here are the oil change intervals for popular 2016 model cars and trucks. Keep in mind more strenuous conditions (such as temperatures over 90 degrees, extreme humidity, towing) will require more frequent oil changes.

The 3,000-Mile MYTH

WHY YOU MAY BE CHANGING YOUR OIL TOO OFTEN

BY MATT JOCKS

Generations of new drivers were brought up to remember two numbers when it came to changing the oil in their cars: three months or 3,000 miles.

But auto mechanics and experts say drivers should really be paying attention to two words: manufacturer's recommendations.

By changing their oil at the frequency recommended by their car manufacturer, drivers will likely save time and money in service costs and do the environment a big favor — without hurting their car or compromising auto performance in the least.

Oil change intervals recommended by car makers can vary greatly, and often are greater than 3,000 miles. Most car companies' models now fall in the 7,500-10,000 mile range. Jaguar has pushed its recommendation for oil change intervals to 15,000 miles.

"We always tell our customers to refer to their recommendations," says Brian Guynn, whose family owns two Jiffy Lube locations in the Chico area. "It's due to better oil being used and better technology in the engines."

In addition to looking up the recommended oil change interval in your owner's manual, Guynn says motorists should consider driving conditions.

"Things like a lot of stop-and-go driving, extended high-speed driving, extreme hot or cold weather can put more strain," he adds.

Even so, very few cars will require changes on the three-month/3,000-mile interval. The reason why? Oil has changed. So have the engines. With an emphasis on increased gas mileage, cars are lighter and more efficient — and so is their oil. Instead of the old 10-30 or 10-40 weight oils, current motor oils show weights like 0-15. Meanwhile, synthetic oils are holding their viscosity longer, allowing them to do their jobs for extended driving.

Getting drivers to give up what's been called the "3,000-mile myth" not only saves time and money, it helps conserve the finite resource of oil. It also aids the environment by reducing the amount of used oil that might wind up fouling the land or water.

The next trend? Your car actually telling you when it needs a change. About half the manufacturers now include at least some models with oil-life monitoring systems that notify the driver when a change is needed. But for now, stick to the owner's manual.

MAKE/MODEL	OIL CHANGE INTERVAL
Honda Civic	Oil life monitor
Honda Accord	Oil life monitor
Toyota Prius	5,000
Toyota Camry	5,000
Nissan Sentra	5,000
Ford F-Series	7,500
Chevrolet Silverado	Oil life monitor
Ford Escape	7,500
Ford Fusion	7,500
GMC Sierra	Oil life monitor
Ford Focus	7,500
Chevrolet Cruze	Oil life monitor
Hyundai Elantra	7,500
Nissan Altima	5,000
Dodge Dart	Oil life monitor

To Check Your Number, go to www.calrecycle.ca.gov/UsedOil/OilChange/FindInterval and select the year, make and model of your vehicle.

Change Your Oil LIKE A PRO

Drivers who change their own oil are a dwindling breed.

But for members of that breed, Rob Holt, Chair of the Automotive Department at Butte College, offers this guide to the job:

1. Refer to the manual for the proper viscosity. An error here could decrease fuel economy and possibly void the warranty.

2. Use a quality oil filter. "You get what you pay for. If you pay \$3 for a filter, you're probably not going to get good quality."

3. Have the car on a flat surface and support it with jack stands.

4. Remove the drain plug and oil filter. Inspect the flange. Make sure the oil filter gasket came off.

5. Torque the drain plug to specifications.

6. Lightly coat the new filter with clean oil and spin the filter until it makes contact and then an additional half turn.

7. Fill oil to the correct quantity.

8. Start the car and watch the monitors to see that the oil pressure reaches normal levels or the red warning light extinguishes.

9. Shut the car off and recheck the oil level and inspect for leaks.



DISPOSAL OF OLD OIL

1

Collect into the drain pan and cap off. Some outlets sell oil in 5-quart jugs that can be used to collect old oil. Containers such as milk cartons or glass bottles are not acceptable.

2

Make sure the oil is not mixed with other materials, including water.

3

Find an oil dropoff site in your county by visiting a website (at right).

TO FIND A OIL RECYCLING LOCATION AND GET A FREE OIL DRAIN CONTAINER, VISIT THESE WEBSITES!

BUTTE COUNTY:
www.recyclebutte.net

TEHAMA COUNTY:
www.TehamaCountyLandfill.com

GLENN COUNTY:
www.glennrecycles.net

TALKING SHOP: Automotive Department Chair shares how oil has changed the game



Rob Holt, Automotive Department Chair at Butte College, says he hopes DIYers do the right thing and recycle their oil and filters.
PHOTO BY EMILY TEAGUE

An automotive engine needs motor oil. That much hasn't changed. But almost everything else about engine lubrication has.

Rob Holt, the Automotive Department Chair at Butte College, has been dealing with the stuff for a couple of decades. He uses the word "crazy" to describe some of the dramatic changes.

"When I started dealing with this, about the time Moses walked the earth, most everyone was using 10-30 or 10-40 oil," he says. "Now, they're talking about having sub-zero viscosity."

With thinner, cleaner, more durable oil, the days of the three-month/3,000-mile oil change

routine are gone. And with more environmental awareness and improved technology, the need and ease of recycling oil has increased.

Lifestyle changes and the increasing complexity of cars have led to changes in habits for drivers. Holt estimates that only about 10 percent of city drivers change their own oil, the numbers increasing in more rural areas. Holt just hopes DIYers do the right thing with that oil.

"My experience has been that most people, when they do purchase the oil themselves, bring the used oil back to that spot," Holt says. "My hope would be that everyone would be recycling."

"My hope would be that everyone would be recycling."

ROB HOLT
*Automotive Department Chair,
Butte College*

“Motor oil contamination is no joke and can harm the natural process that is essential to our farming operations.”

ASHLEY VEGA
Sustainability Specialist, Lundberg Family Farm

Ashley Vega of Lundberg Family Farm says illegal dumping of used motor oil can harm the environment and food growers — and that affects us all. Lundberg recycles all of its oil to make sure it doesn't contaminate the land.
PHOTO BY EMILY TEAGUE



AGRICULTURAL OIL RECYCLING

“Most agricultural users properly dispose of the large quantities of oil they use,” says Steve Rodowick, Recycling Coordinator for Butte County. “But those who don’t may not be aware of the harm they can cause.”

Some large-volume oil users may choose to stockpile their used oil instead of making a trip to the recycler. Rural areas are also often the place urban dwellers “leave it along the side of the road,” which can create enormous problems for the surrounding community. Either way, it’s a potential hazard for the environment.

Bring your agricultural oil to a certified recycler listed here, who will pay you 10 cents per quart:

**Neal Road
Recycling & Waste Facility**
1023 Neal Rd.
Chico, CA 95927
530-879-2352
7 a.m.-4 p.m., 7 days a week

**City of Biggs
Public Works Yard**
2865 West Biggs-Gridley Rd.
Biggs, CA 95917
530-879-2352
8 a.m.-3 p.m., Mon.-Fri.

**Tehama County/
Red Bluff Landfill**
19995 Plymire Road
Red Bluff, CA
8 a.m.-4:30 p.m., Mon.-Fri.
8 a.m.-2:30 p.m., Sat.-Sun.

Coming soon to ...

Rob's Recycling
7949 Highway 99 E
Los Molinos, CA

PROTECTING the Land

GROWING FOOD TAKES SUN, WATER, LAND — AND OIL. AGRICULTURE DOES ITS PART TO KEEP THE ENVIRONMENT CLEAN BY RECYCLING OIL.

BY THEA MARIE ROOD

A hundred years ago, farms were powered by horses. But by 1930, most farmers had traded their horses for tractors, allowing them to farm more acres with fewer workers, and agriculture’s tie to the petroleum industry had begun.

How does today’s farm, known for respecting the land and sustainable agricultural practices, ensure potentially toxic oil doesn’t leach into its organic crops?

At Lundberg Family Farms, a family-owned, eco-friendly rice-growing operation, motor oil is used in tractors, semi-trucks, work vehicles and forklifts. Around 635 gallons are used each year, according to Ashley Vega, Sustainability Specialist for Lundberg, which has operated in Richvale since 1937.

“[We] recycle all oil that is used ... [and] we monitor oil storage as part of our safety program,” she says. “[We also] have our collection container emptied frequently ... to avoid polluting our farms and environment.”

This is important because improperly stored or handled oil can leak. And if it does, it means chemical contamination of a farm’s soil and, eventually, the nearby watershed.

“One gallon of oil can contaminate 1 million gallons of drinking water,” says Steve Rodowick, Recycling Coordinator

for Butte County. While the county’s farmers consume a large amount of oil — changing the oil on a single combine could use 60 quarts — Rodowick says they are also the ones who understand the importance of recycling.

“Our agricultural folks are for the most part great stewards of the land,” he says.

But while farmers themselves may be doing the right thing, rural areas are where most illegal dumping occurs — often by people from outside the area.

“People depend on Lundberg for organic, chemical-free rice products,” Vega says, “but people that wrongly store or manage their used oil place us all at risk. Motor oil contamination is no joke and can harm the natural process that is essential to our farming operations.”

Recycling used oil also fits organic farmers’ philosophy of sustainability. “It helps reduce the need for virgin materials and takes about one-third the energy to create,” says Vega, adding Lundberg’s neighbors and fellow farmers feel similarly. “They understand the importance of maintaining soil quality and the stewardship of resources.”

Don't Forget the FILTERS!

BY ANNE STOKES



Just as you wouldn't dump used oil down the drain, don't throw your old filter in the trash!

USED FILTERS ARE JUST AS IMPORTANT TO RECYCLE AS OIL

If you're savvy enough to change your own oil, you probably know enough to replace the oil filter at the same time. And just as you wouldn't dump used oil down the drain, don't throw your old filter in the trash!

Filters can contain up to 10 fluid ounces of used oil, which qualifies as hazardous waste and prohibits their disposal in landfills. Even drained and crushed filters contain enough residual oil to pose a contamination risk, especially considering Californians use 67 million filters annually. According to the U.S. Environmental Protection Agency, a single gallon of oil can contaminate 1 million – yes million – gallons of groundwater. Improperly disposed filters have the potential to leach more than 2 million gallons of toxic oil into the California environment, poisoning soil and watersheds.

The good news is that used oil filters are completely recyclable. In addition to the residual oil, each

filter is made of paper, plastic and up to a pound of recyclable steel. With nearly one in five California households doing their own oil changes, that adds up to a significant number of vehicle owners in need of a place to responsibly dispose of used oil and filters.

Most local certified oil collection centers and businesses that accept used oil also accept filters. Just make sure to store and transport them in sealed, leak-proof plastic bags or reusable oil filter container. So recycle your used oil and filters. It's the environmentally friendly – and easy – thing to do!

For more information about how to properly dispose of used oil and filters, including the locations of local certified oil collection centers in Butte County, visit www.butterecycles.net or call 530-879-2352. In Tehama County, visit www.TehamaCountyLandfill.com or call 530-528-1103. For Glenn County locations, visit glennrecycles.net or call 800-479-8101.

WHY RECYCLE OIL FILTERS?



Even the **seemingly minuscule** amount of residual oil left in drained filters can have a **big impact** on water quality.

Each year the U.S. generates



used automotive oil filters containing:

- 160,000 tons of iron
- 33 million gallons of oil

Recycling that amount of iron would be enough to build

9 sports complexes
the size of Levi Stadium
or the original
Oakland Bay Bridge
(both spans)



The 33 million gallons of oil in these filters equals the equivalent of

3 Exxon Valdez spills



From left, Erik Gustafson and James Ihnat of the City of Chico say recycled oil finds new life in the city's equipment, including fire engines and dump trucks. PHOTO BY EMILY TEAGUE

As Good as the ORIGINAL



WHY USE REREFINED OIL?

CHICO'S PUBLIC WORKS FLEET PUTS REREFINED OIL TO THE TEST

BY MATT JOCKS

So you followed the urging of public officials and environmentalists and took your used oil to a recycling center. But now what happens to it?

Erik Gustafson has an answer to the now-what question. Gustafson, Director of Public Works Operations for the City of Chico, has responsibility for more than 300 vehicles and pieces of machinery. Inside most of them is second-generation oil.

And there's nothing second-rate about it.

"It is a fantastic thing for us," Gustafson says. "It's very cost-effective, it uses less energy to produce. The benefit for us is that it closes the recycling loop. People submit their used oil and we are able to benefit from that."

Chico uses recycled oil, also called rerefined oil, exclusively on its larger vehicles and pieces of equipment, things like dump trucks, backhoes and fire engines. The only part of the fleet not using it are newer sedans with specifications that don't match available recycled product.

Those who might have been skeptical of rerefined oil have been convinced by the performance and cost-effectiveness. In eight years, Gustafson's department has had only one engine failure, and that was due to an unrelated cooling system issue.

"The fleet has performed extremely well," he says. "For skeptics, it's really an education issue. This oil is not just cleaned, but redistilled at a molecular level."

As for cost, Gustafson estimates a savings of 14 percent over virgin, non-branded oil and 40 percent over branded. This helps Chico and other municipalities make the best use of public money.

"We work extremely hard to stretch our dollars," Gustafson says. "If rerefined oil were more expensive, it would have been more difficult to do this."

Private companies such as Coca-Cola and UPS have moved to recycled oil for their fleets, as have large public agencies such as the California Highway Patrol and CalTrans. So cities like Chico are in good company!

"The benefit for us is that it closes the recycling loop."

ERIK GUSTAFSON
Director of Public Works, City of Chico

Motor oil does not wear out. It only becomes dirty. The process of rerefining removes contaminants and results in a product with a quality equal to that of virgin oil. So why use it?

Rerefined oil is widely accepted. A growing number of private companies and public agencies with large vehicle fleets have switched to rerefined oil. The big three automakers in the United States, while not allowed to endorse specific products, have made clear that certified rerefined oil meets their warranty specifications.

Rerefined oil is a quality product. Rerefined oil is subject to the same standards as virgin oil in testing for certification by the American Petroleum Institute.

Rerefined oil is cost-effective. The price is comparable and, in many cases, lower than standard or synthetic oil.

Recycling oil benefits the environment. Not only does it reduce the amount of toxic waste in the ground and water, the process of rerefining is more energy efficient than producing stock from crude oil.

Change Your Oil THE RIGHT WAY

10762₈

CHECK YOUR NUMBER

Consult your owner's manual to learn the recommended oil change interval or visit www.calrecycle.ca.gov/UsedOil/OilChange/FindInterval. Adjust for extreme driving conditions.

USE SYNTHETIC OIL

If possible, go synthetic — it lasts longer, requiring fewer changes.

CAPTURE USED OIL IN PROPER CONTAINER

No glass bottles or cardboard cartons. Do not mix with other substances, including water.

DROP OFF OIL & FILTERS AT COLLECTION CENTERS

FOR BUTTE COUNTY:
www.recyclebutte.net

FOR TEHAMA COUNTY:
www.TehamaCountyLandfill.com

FOR GLENN COUNTY:
www.glennrecycles.net

FOR ALL AREAS: Earth911.com

Receive 10 cents/quart payment!

WHERE TO RECYCLE USED OIL AND FILTERS

*indicates locations where used filters are accepted.

Butte County

AUTOZONE
1843 Park Ave.
Chico, CA 95928
530-892-8053

AUTOZONE*
136 W. East Ave.
Chico, CA 95926
530-892-8155

**EXPRESS
AUTO REPAIR & LUBE***
2354 Esplanade
Chico, CA 95926
530-566-9404

JIFFY LUBE*
1218 Mangrove Ave.
Chico, CA 95926
530-895-3807

JIFFY LUBE*
2452 Notre Dame Blvd.
Chico, CA 95928
530-892-9371

LUBE EXPRESS*
2399 Esplanade
Chico, CA 95926
530-891-8212

**NORTH VALLEY
DISPOSAL & RECYCLING**
2605 Fair St.
Chico, CA 95928
530-893-0333

O'REILLY AUTO PARTS*
2485 Notre Dame Blvd.
Chico, CA 95928
530-345-2782

O'REILLY AUTO PARTS*
1618 Mangrove Ave.
Chico, CA 95926
530-893-8525

PEP BOYS
1555 Mangrove Ave.
Chico, CA 95926
(530) 895-1336

PICK-N-PULL*
397 E. Park Ave.
Chico, CA 95928
916-858-3100

PRO LUBE
2485 Norte Dame Blvd.
Chico, CA 95928
209-966-6816

AUTOZONE*
1636 Highway 99
Gridley, CA 95948
530-846-5178

**GRIDLEY HOUSEHOLD
HAZARDOUS WASTE
RECYCLING***
Ord Ranch Road
Gridley, CA 95948
530-893-0333

O'REILLY AUTO PARTS*
1590 Highway 99
Gridley, CA 95948
530-846-0701

AUTOZONE*
1970 Oro Dam Blvd.
Oroville, CA 95966
530-533-4993

AVERY'S LUBE AND OIL*
3034 Olive Highway
Oroville, CA 95966
530-534-3512

**BUTTE COUNTY PUBLIC
WORKS***
#9 County Center Drive
Oroville, CA 95965
530-538-7224

JIFFY LUBE*
1450 Oro Dam Blvd.
Oroville, CA 95965
530-532-4761

**NORTH STATE
RENDERING CO, INC.**
15 Shippee Road
Oroville, CA 95965
530-343-6076

O'REILLY AUTO PARTS*
2525 Oro Dam Blvd.
Oroville, CA 95965
530-533-6792

AUTOZONE*
7542 Skyway Road
Paradise, CA 95969
530-872-4692

JIFFY LUBE*
6081 Clark Road
Paradise, CA 95969
530-892-9371

**LYONS EXPRESS
LUBE OIL***
5605 Almond St.
Paradise, CA 95969
530-872-8583

O'REILLY AUTO PARTS*
7368 Skyway
Paradise, CA 95969
530-877-1135

**TOWN OF PARADISE
HOUSEHOLD
HAZARDOUS WASTE***
920 American Way
Paradise, CA 95969
530-876-3340

Glenn County

A & Z AUTOMOTIVE
910 6th St.
Orland, CA 95963
530-865-2723

AUTOZONE*
711 6th St.
Orland, CA 95963
530-865-2503

**FRANK GEBHART
AUTOMOTIVE REPAIR***
4426 County Road Hh,
Ste. B
Orland, CA 95963
530-865-8300

O'REILLY AUTO PARTS*
304 E. Walker St.
Orland, CA 95963
530-865-8352

**BARCELOUX BROS
AUTO SUPPLY**
124 S. Butte St.
Willows, CA 95988
530-934-2151

O'BRIEN'S AUTO REPAIR*
615 S. Tehama St.
Willows, CA 95988
530-934-5837

O'REILLY AUTO PARTS*
1257 W. Wood Street
Willows, CA 95988
530-330-5072

**THUNDERHILL RACEWAY
PARK***
5250 Highway 162
Willows, CA 95988
530-934-5588

WILLOWS AUTO CENTER*
204 S. Tehama Street
Willows, CA 95988
530-934-9251

WUNSCH'S GARAGE*
315 S. Tehama St.
Willows, CA 95988
530-934-7150

Tehama County

AUTOZONE*
2123 Solano St.
Corning, CA 96021
530-824-3024

**CORNING TRAVEL
CENTER***
3524 S. Highway 99 West
Corning, CA 96021
530-824-4646

O'REILLY AUTO PARTS*
798 Edith Ave.
Corning, CA 96021
530-824-3895

**PETRO STOPPING
CENTERS***
2151 South Ave.
Corning, CA 96021
530-824-0713

**ROYAL TRUCK WASH
TIRE & LUBE***
3094 Highway 99 West
Corning, CA 96021
530-824-1431

SPEEDCO TRUCK LUBE*
3595 Highway 99
Corning, CA 96021
530-824-3504

AUTOZONE*
555 S. Main St.
Red Bluff, CA 96080
530-527-2372

CASSIDY'S AUTO LUBE
450 Antelope Blvd.
Red Bluff, CA 96080
530-529-0501

JIFFY LUBE*
190 S. Main St., Ste. A
Red Bluff, CA 96080
530-515-6736

O'REILLY AUTO PARTS*
510 S. Main St.
Red Bluff, CA 96080
530-527-9590

**TEHAMA COUNTY/RED
BLUFF LANDFILL***
19995 Plymire Road
Red Bluff, CA 96080
530-528-1103



Call ahead for hours of operation, quantity limits and to see if filters are accepted before visiting any of these certified used oil recycling centers. Do not leave used oil or filters at closed locations after hours.