

BRING Recycling's Used News

News You Can Use and Reuse | Vol. 20, No. 1 Winter 2011



Lighting By Design

The Planet Improvement Center (PIC) is designed to be a showcase of green building concepts. We've used many methods to reduce the energy we need for lighting. Reused and repurposed lights can be found throughout the buildings. Old fluorescent T12 fixtures have been rebalasted to use more efficient T8 bulbs. The energy savings for the large retail outlet, gallery, and office are considerable; we saved the energy that would have been used to manufacture new fixtures by upgrading existing ones.

Buildings at the PIC take advantage of natural light. The entire south wall of the administration building is filled with windows that flood the office with light, especially in winter when the sun is low. Interior walls incorporate "re-lights" made from old sliding glass doors to let the light into the back corners. Rooftop monitor windows add more light so that only the most dark and dismal of days require us to turn on the lights. Motion detectors turn off lights when they aren't needed in case we forget, and each desk has a tiny, efficient task light.

In our retail building, the open design takes advantage of natural light, and clear panels in the roof let light through. We are able to keep the lights off most of the time.

Lighting design solutions for homes and commercial buildings vary widely. Offices are frequently over lit, and many cost conscious companies end up taking the bulbs out of a number of fixtures. Large commercial buildings can use passive fiber optics to bring outdoor light into the center of the building and down into the deepest subbasements. In a home, adding a well placed window or skylight may be a possibility, but if not, a light tube might just fit the bill.

If a remodel isn't in your future, behavior becomes your ally. Use the most efficient lighting you can find and turn off lights when they aren't in use.



Plastic panels can bring light into a large space. At BRING's retail outlet, the covered shopping area not only protects materials from the weather, it also lets light fill every corner. The design is so efficient, it is only during the winter months that we need to augment the natural light with artificial light.



Light playing with the lights. The design of BRING's retail outlet takes advantage of natural light. While these lights are patiently waiting to become new fixtures in your home, the sunlight shining through them creates brilliant reflections and contrasting shadows.

Light!

Light surrounds us and fills our lives. It has an enormous effect on our mood, our health, and how we spend our time. During the summer months, Lane County enjoys long days bathed in light. During the winter months, overcast skies and short day length can make even the most optimistic feel a bit dismal.

Many types of lighting have come and gone, including limelight, whale oil lamps, and natural gas lights. Currently, the electric light reigns supreme. In the 1930s, 90% of city dwellers had access to electricity, whereas only 10 percent of rural inhabitants even had the option. Many people, especially in rural areas, went to bed when it got dark and rose with the light. Candles or, for the wealthy, kerosene lamps were the only light available. Electric light was a luxury of the cities that few could afford.

Today, electric lighting is undergoing a revolution to increase efficiency.

We generate our electricity from a variety of sources, each of which has pros and cons from an environmental viewpoint. While green power may be an option through the local utility, most of us cannot control the source of the electricity we use. What we can control is our own behavior—we can turn off lights when they are not needed, use task lighting instead of flooding an entire room or modify our schedules to do certain tasks in natural daylight. Using light efficiently is key.

Using too much light results in light pollution. In an urban setting, badly shielded lights block out the night sky and impact people living nearby. There are few things more annoying than a bright security light shining into your bedroom when you want to sleep! Using too little light may make us feel unsafe or stressed. Walking down a dark alley in an unfamiliar neighborhood can leave all of us feeling unnerved.

Beyond behavior modification, there are dozens of ways we can reduce the environmental impact of lighting. We can change the fixtures, bulbs, and switches we use. [See page 4 for a breakdown of light bulb types.] We can design new buildings to take advantage of natural light. We can remodel using technologies to bring natural light into normally dark spaces.

As you read this issue, you will find a lot of information on light and lighting, including information about light boxes that brighten the darkness with full spectrum light. Pay special attention to the federal regulations that will affect light bulb manufacturers; those regulations will effect you. You'll see the latest in technologies and rediscover some old ideas that may have been forgotten. Let the sun shine in!

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BRING Recycling

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BRING'S MISSION:

Helping people understand how the stuff we use shapes the planet we share.

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Services Provided by BRING Recycling:

REUSE BUILDING MATERIALS: The BRING retail outlet, located at 4446 Franklin Blvd. in Glenwood, sells used building materials, bicycles, lawn mowers, canning jars, windows, doors, sinks, plumbing fixtures and much, much more. We offer disposal of unwanted—yet still reusable—material from remodels, construction projects, garage clean outs, etc.

EDUCATION: BRING provides workshops, activities and presentations to groups of all ages throughout the county. Each year, the education program reaches well over 15,000 individuals with the reduce, reuse, recycle message.

RE:THINK: RE:think Business provides free, hands-on services for small to medium-sized businesses in Lane County. We offer independent, confidential advice on cost efficient ways to reduce waste, recycle more, and use less electricity, water and materials. Businesses that meet conservation benchmarks are eligible to receive the RE:think Recognition Award and publicity for their efforts.

RECYCLING, COLLECTION AND PROCESSING: BRING is contracted to process materials collected at the Lane County Central Receiving Station. We coordinate special recycling and waste reduction events such as compost bin sales. Our staff work to develop new recycling programs for new materials.

INFORMATION: BRING maintains a video and print library of recycling information and trade journals. We are happy to answer questions and assist with research. Used News is a free quarterly newsletter published by BRING Recycling, a nonprofit organization serving Lane County since 1971.

BRING is a 501(c)(3) tax-exempt not-for-profit agency, serving Lane County since 1971.

Member of
EarthShare
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Letter from the Director

Lighten Up!

Many of us start a new year with a resolution or two, generally of the self-improving kind. I'm no exception. I like the challenge of starting my year with some goals in mind; sometimes I even follow through!

My resolution for 2011 is to continue my quest to lighten up and lose excess poundage. No, I'm not talking about "middle aged spread." My goal is to shed more pounds of carbon emissions.

Estimates vary, but it's often said an average person living in an industrialized nation emits about 11 tons, or 22,000 pounds, of CO₂ gases a year. North Americans emit a whopping 20 tons, or 40,000 pounds, obviously considerably more than our fair share. I want to do my part to cut that figure.

An easy way to start is to try one of the several carbon footprint calculators available on the web. They are fun to use, allowing you to see quickly how things you already do make a difference, and how you can cut emissions further. I learned that the simple changes I've made have made a huge difference. I'm putting out nearly eight fewer tons of CO₂ than I was a decade ago, without any real sacrifice on my part. Some changes are "one and done." For example, over the past few years I've replaced most light bulbs with compact fluorescents or LEDs; replaced old appliances with energy efficient models, wrapped my hot water heater and installed a solar hot water system. My electricity bill has plummeted, allowing me to switch to 100% green power and still pay less for power than I did five years ago.

Other changes are more lifestyle related—things I've learned do on a regular basis. One of the easiest for me is hanging laundry out on a line on dry days, indoors on racks on wet ones. I love the smell of sun

dried washing and the simple act of hanging it out. Every day activities most of us do, like composting, recycling, using durable shopping bags, cups and water bottles also cut carbon output. I love to cook and eat, so I thoroughly enjoy taking advantage of abundant local foods and the ability to buy staples in bulk—both carbon savers. One of my biggest carbon reducers is one I enjoy the most—commuting and errand running by bike. That alone cuts my CO₂ output by nearly a ton each year, allowing me to enjoy being outdoors every day and saving me several hundred dollars in gas, oil changes, tires, parking fees and maintenance costs in the process.

One very effective and enjoyable carbon reducing activity the calculators don't measure is buying used. As regular *UsedNews* readers know, manufacturing new goods produces lots of carbon emissions—and reuse is a great way to avoid that. We're fortunate in Lane County. We have a robust used goods retail sector, giving us a wide selection of electronics, clothes, books, household goods, building materials and a host of other products.

I find living lightly hugely satisfying, and apparently, I'm in good company. More and more people are finding that concentrating on "more fun, less stuff" leads to happier, more fulfilling lives. Time with friends and family turns out to be far more enjoyable than a new gizmo. Maybe we're learning that money really doesn't buy you happiness. Happy new year everyone!

Here's a couple of carbon calculators you can try.
<http://www.yousustain.com/footprint/actions>
<http://www.deq.state.or.us/programs/sustainability/carboncalculator.htm>

—Julie Daniel



New Faces at BRING Tyler Hager

Tyler, 22, is a native Eugenean, though he has spent most of his life in Oakridge. Tyler enjoys being outdoors hunting and fishing. He experienced big city life working for Papé Machinery in the Seattle area where he put his education from Linn Benton Community College in construction and forest equipment to work. Tyler likes working for BRING because his job directly helps the environment and because BRING has "great people to work with." When not at BRING, Tyler likes spending time with his family. Given unlimited time and money, Tyler would like to see New Zealand and Alaska.



Manufactured by the Shelby Electric Company, this Carbon-filament bulb is still in operation.

Centennial Bulb

No issue of the *UsedNews* focused on light could be complete without mentioning the Livermore-Pleasanton Fire Department (LFPD). East of San Francisco on the 580, the LFPD currently hosts the world's oldest continuously burning light bulb. While it has been moved a couple of times from its original home, Guinness and Ripley's both acknowledge that those brief interruptions do not tarnish its record. Donated to the FD in 1901, the bulb now has its own dedicated power supply and web cam. You can see the bulb at www.centennialbulb.org/photos.htm. Alternatively, the bulb can be visited at Fire Station 6, 4550 East Ave., Livermore, California. Go to the back of the building and ring the bell. If no one is there, you can see the bulb through the window.

For a free subscription to this newsletter, contact us at 541-746-3023.

For a waste-free electronic subscription, sign up online at
www.bringrecycling.org

Planet Improvement Center — Help Complete the Vision!

If We Build It, They Will Come

More Retail Space Needed Now!

Exciting things are happening at BRING. We're about to take another giant step to help our community reduce waste, save resources, and shrink our collective carbon footprint—and we need your help.

So many people are flocking to BRING, we've run out of space to house all the reusable goods coming our way. Valuable items sit out in the mud and rain, losing their re-usfulness. We need to invest in our long-planned, second retail building—now—while construction costs are low and demand for our services is at an all-time high.

Your support will make a huge difference in BRING's long term success. The new building nearly doubles our indoor shopping space. More covered shopping means more satisfied shoppers, more materials reused, and more energy saved.

The Planet Improvement Center is more than a place to find great, used stuff. It's an essential piece of community infrastructure, required as we make the leap to a sustainable future. It allows BRING to tackle the big problems of the day—like climate change—by providing practical ways for our whole community to make a difference.

We need to raise \$265,000 in the next few months to complete the project this winter, during our slow season. Please help us take this next big step toward a sustainable, waste-free world. Make a donation or pledge to BRING's capital campaign today. Use the enclosed envelope, donate online, or give us a call.



More and more people discover the joy of reuse in our shopper-friendly retail store. Photos from BRING's video, "Reuse It." Watch it at reuseitnow.org.

What's in Phase 2:

- Covered retail building #2
- Processing and storage facilities
- Trash/recycling station
- Bioswale #2
- Paving and infrastructure
- Demonstration garden – in progress
- Educational signage and art

Project Facts

WHAT: BRING's Planet Improvement Center

WHERE: 4446 Franklin Blvd. in Glenwood.

PROJECT TEAM:

Architect:

TBG Architects & Planners

Civil Engineer:

Balzhiser & Hubbard

Structural Engineer:

Hohbach-Lewin

General Contractor:

Chambers Construction

Landscape Architect:

Schirmer + Associates

GOAL: \$400,000

RAISED TO DATE: \$135,000

2010 Milestones

- RE.think Business—launched free, waste-reduction program for businesses.
- "Reuse It"—produced short video on Oregon's used building materials industry—now seen around the world.
- Photovoltaic system—BRING now generates 11.9 kWh of renewable energy.
- BRING Home & Garden Tour—2nd annual tour held.
- 11,000 people and businesses donated reusable items.
- 12% increase in reuse customers.
- 6,200 students learned about the 4Rs.

Next Big Step

- * 5,800-square-foot retail building
- * Staff clean-up and sanitation facilities

How Can I Help?

- 1) Mail your donation or pledge in the enclosed envelope.
- 2) Donate online at www.bringrecycling.org.
- 3) Donate by phone at 541-746-3023.
- 4) Use our handy auto-draft option.

BRING is a tax-exempt non-profit agency. Donations are tax deductible to the extent allowed by law.

Shop Smart/Help the Planet

Where you shop can make a difference. Two local businesses, Market of Choice and SeQuential BioFuels, generously donate a percent of your purchases to BRING—at NO COST TO YOU! It's a great way to help the planet while going about your daily business.

- Market of Choice donates through the eScrip program. All you need to do is register your debit or credit card (the ones you use for grocery shopping) online at escrip.com.

It takes five minutes, max. This past year, BRING received \$1,149 from Market of Choice, with only 45 people participating. Imagine what we could do if all of our 6,500 newsletter subscribers signed up! See the box below for details.

- At SeQuential BioFuels, just ask them to donate to BRING when you fill up your tank or purchase food or drink in the deli. That's all it takes.

Thanks to Our General Fund Donors Supporting Ongoing Operations

George & Brenda Clarke
Eye Beam Event Services
Anonymous

Thanks to Our Campaign Donors For Gifts Made September 11 – November 30, 2010

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in memory of Mel MacDerman
Maggie Yokum
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Anonymous (8)

Donor categories represent value of cumulative gifts to the campaign.

Support BRING – No Cost to You!

SeQuential BioFuels

Fill up your tank (or tummy) at SeQuential BioFuels, and ask to donate a portion of your purchase to BRING. SeQuential has fuels for every car—gas, ethanol and biodiesel – and a deli featuring fresh, local foods and organic espresso, coffee and teas. They're located at 86714 McVay Highway, just north of I-5 and 30th Avenue. Look for the station with the living, green roof!

Shop at Market of Choice

Support BRING with a swipe of your card at Market of Choice. The store contributes a percentage of your purchase at no cost to you. Go to www.escrip.com. Click on "Sign Up – It's Free!" Then:

- Step 1 – Enter group name: BRING Recycling. Then click on it.
- Step 2 – Enter your contact information.
- Step 3 – SKIP this step.
- Step 4 – Securely register your credit or debit cards.
- Step 5 – SKIP this step.

Use your registered cards when you buy groceries at Market of Choice and other participating merchants listed on the eScrip web site. Thank you!

 **MARKET OF CHOICE**

Efficient Lighting

The incandescent light bulb has served us well for over 100 years but its popularity is waning due to energy shortages, peak oil, and increasing energy demands worldwide. Developing more efficient lighting options has become a necessity.

Currently, the most cost effective and widely available alternative is the compact fluorescent bulb (CFL). Very efficient and long-lived, they save consumers money and considerably reduce the amount of energy we use for lighting nationwide.

CFLs aren't perfect. Early versions often had a noticeable lag time between the flip of the switch and the light reaching full brightness. Mild cold diminished light output, especially during the several minutes it took for the light to warm up. Many people found the "tone" of the light harsh and uncomfortable. These problems have declined considerably as the technology has improved, but since a hallmark of the CFL is its long life, many older bulbs are still in use.

CFLs require special handling as they contain a small amount of mercury, a highly toxic substance. CFLs must be recycled through an approved processor and should



A variety of bulbs. Top LED Replacement light for fluorescent tubes, bottom (left to right) metal halide, LED flashlight, halogen reflector, 4 pin CFL, Edison base CFL, incandescent reflector, standard incandescent bulb.

never go in the trash. [See table on this page to find out where to take fluorescent bulbs of all kinds.] CFLs pose no risk if they are unbroken.

When buying new CFLs, look for the Energy Star logo. Energy Star rated bulbs must function properly within a specified temperature range, meet start up requirements, light color specifications and, of course, be energy efficient.

What does the future hold for efficient lighting?

Light Emitting Diodes (LED) lights are many times again more efficient than the CFLs and have a life span of 50,000 hours. They contain no mercury and come in a variety of brightnesses, colors and temperatures. Since the technology is still being improved, they are very expensive. They tend to provide strongly directional light rather than the diffused light put out by an incandescent bulb.

Incandescent bulbs aren't dead, and there are places where they still trump other forms of lighting. They work well in extreme cold or heat, so your freezer and oven lights are likely to remain close to Edison's original light bulb design for some time to come.

Light Bulb Efficiency Law

In 2007, President Bush signed legislation that will significantly improve light bulb efficiency standards. Some have interpreted the new law, which takes effect in 2012, as a ban on the inefficient incandescent bulb. This is incorrect. Manufacturers simply have to produce bulbs that meet the new standards. According to Randy Moorhead, vice president and lobbyist for Philips Electronics, there has been plenty of time to prepare. Some proactive manufacturers are already producing new incandescent halogen bulbs that meet the standards. Consumers won't notice a difference between them and a "regular" incandescent except for the lower electric bills.

The intent of the law is to motivate innovation and conserve energy. Given the necessity of addressing energy shortages, increasing costs, peak oil, and energy independence, legislation to require more efficient devices in not only practical but necessary.

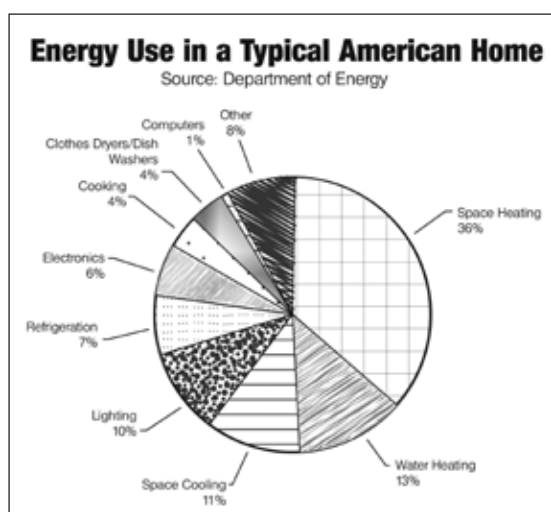


The incandescent bulb represents old technology. While it has served us well for over 100 years, its inefficiency simply doesn't stand up to an energy starved world. Like so many technologies we have depended on, newer and better options exist. Energy efficiency is the way of the future.

What difference will the higher efficiency standard make? According to Noah Horowitz, a senior scientist with the National Resources Defense Council, the new standards will:

- Cut our nation's electric bill by \$13 billion a year.
- Eliminate the need for 30 large (500 MW) power plants.
- Prevent more than 100 million tons of CO₂ emissions, the main pollutant, responsible for global warming.

While there is no such thing as a "typical" American home, this little chart can give you an idea of good places to start reducing your energy use. You may or may not have air conditioning or a ton of electronic equipment, but most of us heat our homes, light them, cook and cool our food and heat water. Space and water heating are the biggest energy gobblers so it makes sense to start there. Turn down your thermostat, don't heat empty rooms and try to weatherproof and insulate. Reduce water heating costs by lowering the thermostat to 120 degrees Fahrenheit, insulating your tank, installing low flow showerheads, and using cold water to do your laundry.



Thinking about a light box?

Light boxes, designed to treat Seasonal Affective Disorder (SAD), have been around for a long time. They are designed to help alleviate the winter blues that many people experience. The first models to hit the market were nothing more than full-spectrum bulbs used for growing plants, which emulate the sun. As our understanding has developed, light box technology has improved, and there are now a number of different boxes available.

Some boxes emulate the sunrise. They are designed to turn on at a set time and slowly grow in intensity allowing your body to experience a "sunrise." Clearly, this type of light only works if your schedule allows you to wake earlier than the natural sunrise or after sun set. Other boxes are designed to shower you with light for a specified period at a specified intensity. These come in a variety of styles and light types. Both types utilize a variety of bulb types. While the fluorescent bulb has been the standard, LED technology has begun to take over the market. Make sure you buy a box that is designed to treat SAD. Some light boxes emit ultraviolet (UV) light and are designed to treat skin ailments. UV light can hurt your eyes and skin if you get too great a dose. Choose the right box for the purpose.



Treating SAD and other light effective disorders can be greatly helped by using photo therapy. Bright lights designed to emit specific colors, temperatures and brightnesses help many make it through our sometimes-dreary winter months.

Light boxes may include a number of different features. Timers, dimmers, and computer-controlled programs are available. Others simply have an on/off switch. As with most technologies, the more features you get, the greater the price. Typical light boxes can range from \$100 to \$500.

Light therapy isn't for everyone. As with any medical treatment, the first place to start is by talking with a medical professional. They can help you navigate the features and pick the right box for you.

Where Do I Recycle Old Fluorescent Bulbs?

That CFL that's been saving you money for the past 5 years finally burnt out. You know it has mercury in it and can't be thrown away, but you don't know where to take it. The list below should get you started.

For bulbs used at home, simply take them to any location listed below. Commercial businesses with spent fluorescent bulbs should contact Lane County Waste Management at 541-682-3111 or their local lighting supplier.



Credit: Amin Kübelbeck
http://en.wikipedia.org/wiki/File:Energiesparlampe_01_retouché.jpg

Eugene

- Aqua Serene
2836 W. 11th Avenue
- Brighter Homes Lighting
1968 W. 6th Avenue
- Emerald People's Utility District (EPUD)
33733 Seavey Loop Road
- Eugene True Value Hardware
2825 Willamette Street
- Greater Goods
515 High Street
- Heinke Electrical and Lighting
645 Adams Street
- Jerry's Home Improvement Center
2600 Highway 99 N.
- Lane Electric Cooperative
787 Bailey Hill Road

- NextStep Recycling
2101 W. 10th Avenue
- The Green Store
500 Olive Street

Springfield

- Jerry's Home Improvement Center
2525 Olympic Street
- Oregon's Constant Gardener
423 Q Street

Junction City

- B and I True Value Hardware
120 W. 6th Avenue

Cottage Grove and Creswell

- Cascade Home Center
49 S. 6th Street, Cottage Grove
- 104 S. Mill Street, Creswell

Light Bulb Types	Comparative Efficiency	Notes
Incandescent		
Standard	*	90% of energy goes towards heat
Halogen	**	Brighter than standard bulb.
Parabolic aluminized reflector (PAR)	*	Appear brighter because the light is directed to a small area.
Fluorescent		
Fluorescent tube	***1/2	Requires ballasted fixture
Fluorescent (Compact)	**1/2	Fits most standard fixtures
Fluorescent induction	****	Requires specific fixture
LED		
LED Standard Mount	*****	Directional light, expensive
LED Tube	*****	Directional light, expensive

While you may see other light bulb and fixture types in and around your own home, the three main types most of us will find are listed in this chart along with their general efficiency. It's worth considering that while LEDs are expensive, they also last much longer than any other bulb.

Reuse and Recycling in Lane County

Save money. Save resources. How? By taking advantage of all the opportunities to reuse and recycle in Lane County. A lot of stuff can be taken to one of the 16 County Transfer sites (see map below). Most recycling is not just free, it can

save you \$1 on garbage fees when you bring at least 10 lbs. of separated recyclables. Curbside haulers usually offer discounts for recycling, too. **Remember:** Reusing is even better than recycling.

PAPER PRODUCTS

Corrugated Cardboard and Brown Paper Bags ALL
Flatten; only 3-ply; no waxed, no food contamination.

Greeting Cards and Gift Wrap ALL
Recyclable (if non-metallic) or reusable:
MECCA, 541-302-1810

High-Grade Office Pack SOME
Computer/copy machine paper, fax paper, envelopes, light-colored office and school paper, etc.; staples, windows, adhesives OK.

Low-Grade Mixed Paper ALL
Magazines, junk mail, catalogs, egg cartons, gift wrap, cereal and 6-pack boxes, and all high-grade paper.

Junk Mail ALL
Recyclable curbside; remove any samples. Prevent it-call BRING, 541-746-3023.

Milk, Soy and Juice Cartons ALL
Rinse and let air-dry; remove plastic parts/straws.

Newsprint ALL
Loose or place in brown paper bag.
The Mission, 541-344-3251

Phone Books ALL
Cancel the ones you do not use. Ask your hauler if recyclable curbside.

Shredded (not cross-cut) ALL
Curbside OK. Place in paper bag, staple once and label "shredded paper."
Commercial quantities: International Paper, 541-744-4100

Tyvek (see Plastic)

Magazines ALL
Remove plastic packaging to recycle; donate to social service agency waiting rooms.
St. Vincent de Paul, 541-345-0595

METALS

Aluminum (cans, foil, trays) ALL
Rinse clean of any food/contamination. Wad foil into a baseball-sized ball.

Tin Cans ALL
Rinse clean of any food/contamination. Labels and lids OK.

Aerosol Spray Cans ALL
If EMPTY, recycle in County scrap metal bin—remove caps, do not flatten or puncture.
If NOT empty, take to County Hazardous Waste, by appointment, 541-682-3111

Scrap (75% or more metal) ALL
Barrels, toasters, bed frames, bikes, etc.; containers must be visibly punctured from all sides.
Schnitzer Steel, 541-686-0515

Propane Tanks \$ ALL
St. Vincent de Paul, 541-345-0595

Hot Water Heaters ALL
See Electronics and Appliances.

VEHICLE-RELATED

Antifreeze, Oil Filters ALL
Highly toxic but free to recycle at all county sites!

Auto Batteries \$ ALL
Illegal to throw away as garbage under Oregon law.
Battery X-Change, 541-689-9134

Child Car Seats
Rigid plastic part only—remove all fabric, straps and foam.
International Paper, 541-744-4100

Motorcycles (wrecked, broken, or unwanted)
Cyclepsycho Motorcycle Recycling, 541-461-9279

Motor Oil \$ ALL
Illegal to throw away as garbage under Oregon law.
Some curbside recyclers accept motor oil in labeled, non-breakable containers with a screw-top lid.

Tires \$ \$ ALL
Illegal to throw away as garbage under Oregon law.
Big B Tires, 541-746-4193, and many Les Schwab locations

ELECTRONICS, APPLIANCES, COMPUTERS & TV'S \$ \$

It is illegal to throw away large appliances, computers and TVs as garbage under Oregon law.

Air Conditioners \$ ALL
St. Vincent de Paul, 541-687-5820

CDs, DVDs and Cases GLENWOOD
NextStep Recycling, 541-686-2366

Cell Phones and PDAs GLENWOOD
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111; drop boxes at REI, UO Bookstore, ASUO office, UO Telecom office, and Kennedy Middle School.

Christmas Lights \$
NextStep Recycling, 541-686-2366

Computers and Peripherals GLENWOOD
Illegal to throw away computers & monitors in garbage under Oregon law.
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111

Dishwashers, Clothes Washers and Dryers \$ ALL
Can go in Scrap Metal for free.
Schnitzer Steel, 541-686-0515
St. Vincent de Paul, 541-687-5820

Hot Water Heaters ALL
Recycle as scrap metal at County Transfer Sites.
Schnitzer Steel, 541-686-0515

Microwave Ovens \$ ALL
NextStep Recycling, 541-686-2366
Cascade Microwave, 541-686-2482

Phones and Phone Equipment SOME
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111

Printer, Inkjet, Fax and Other Cartridges
NextStep Recycling, 541-686-2366
Rapid Refill, 541-334-4465
Redundant Cartridge, 541-302-1444

Refrigerators and Freezers \$ ALL
St. Vincent de Paul, 541-687-5820

Small Appliances (toasters, irons, blenders)
Thrift stores (see KEY above).

Stereos, Radios, etc. GLENWOOD
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111

Stoves \$ ALL
Televisions \$ SOME
Illegal to throw away as garbage under Oregon law.
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111

VCRs and DVD Players GLENWOOD
NextStep Recycling, 541-686-2366
County Electronic Recycling, 541-682-3111

Video Cassette Tapes and Cases
St. Vincent de Paul, 541-345-0595

PLASTIC

Bottles, Tubs, and Jars ALL
Rinse, discard lids, no #6 plastic (#6 = most takeout containers and foam).

Plastic Bags SOME
Clean and dry only.
International Paper, 541-744-4100

Plastic film, Pallet Wrap and Lumber Wrap SOME
International Paper, 541-744-4100

6-Pack Rings SOME
Recyclable as bags/film (see above).

Plastic Plant Pots and Trays GLENWOOD
Remove all dirt.

Packing Peanuts
Try craigslist.
Accepted by NextStep Recycling, UPS Stores and other mailing services.

Styrofoam™ (Block Foam)
No food containers or cups.
St. Vincent de Paul, 541-687-5820
For reuse: The UPS store in Springfield, 541-741-0411
The Bear Factory, 541-746-4842

Tyvek Envelopes
Tyvek Recycling Hotline, 866-338-9835

"Other" (rigid plastic mix, e.g., lawn chairs, buckets, Rubbermaid® containers, play structures, toys, etc.)
International Paper, 541-744-4119

GLASS

Bottles, Jars and Jugs ALL
For recycling: rinse clean, remove lids. Labels OK.
For reuse: BRING, 541-746-3023 (only canning jars, vases, antiques)
The Glass Station, 541-342-1701 (jars, with or without lids)

Vases, Drinking Glasses GLENWOOD
For reuse: BRING, 541-746-3023; Thrift stores (see KEY above).

Windows and Window Glass GLENWOOD
For reuse: call BRING for details, 541-746-3023

Shower Doors
Call BRING for details, 541-746-3023

WOOD AND YARD-RELATED

Brush, Yard Debris \$ SOME
Grass, leaves, weeds, branches 20" diameter and less; compost/mulch at home.
Lane Forest Products, 541-345-9085
Rexius Forest Products, 541-342-1835

Grass Clippings and Leaves SOME
(See Brush, Yard Debris)

Pallets
Pacific Pallet, 541-688-2887
Eugene Pallet Services, 541-485-0549

Wood, Dimensional Lumber and Plywood, Reusable \$ SOME
Dimensional lumber 4' or longer. Plywood sheets, nails OK.
BRING, 541-746-3023

Wood, Not Reusable (some restrictions apply) \$ SOME
Rotten wood, pegboard; NO railroad ties.
Rexius Forest Products, 541-342-1835; no railroad ties or pressure treated wood. Lead-free painted wood OK.
Lane Forest Products, 541-345-9085; no railroad ties, pressure treated and painted OK.

CHEMICALS AND HAZARDOUS WASTE

Common household hazardous waste is taken free of charge by Lane County Hazardous Waste. Call 541-682-3111 to make an appointment.

Batteries ALL
Most batteries (car, watch, rechargeable, NiCad, mercury, lithium, lead-acid) free to recycle.
Alkaline batteries less than 10 years old are considered safe in the garbage.

Fire Extinguishers (any size) \$ GLENWOOD
National Firefighter, 1574 W. 6th, Eugene, 541-485-3566, or by appointment at Glenwood, 541-682-3111.

Fluorescent Light Tubes and Bulbs GLENWOOD
Most lighting and hardware stores will take those under 4 ft. long.
NextStep Recycling, 541-686-2366
County Hazardous Waste, by appointment, 541-682-3111

Paint GLENWOOD
County Hazardous Waste, by appointment, 541-682-3111
paintcare.org Enter in your zip code for a listing of drop off sites

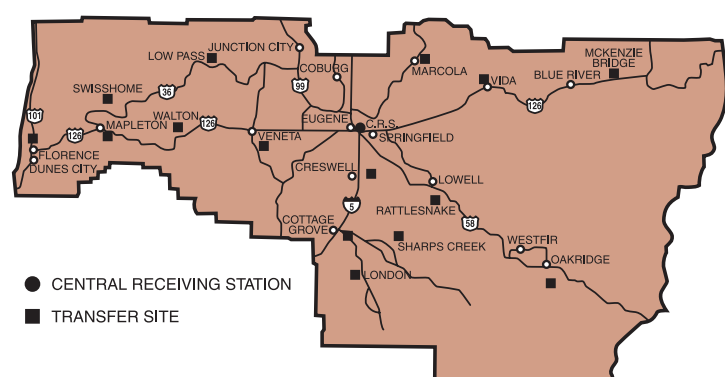
Pesticides and Fertilizers GLENWOOD
County Hazardous Waste, by appointment, 541-682-3111

Pesticide Containers (empty)
Try Oregon Agriculture Assoc., 503-370-7024

QUESTIONS? CONFUSION?
CALL BRING AT 541-746-3023.

We're your recycling hotline! You can also refer to the Brown Pages in the front of your Dex phone book, or call the County at 541-682-4120.

Lane County Transfer and Recycling Sites



Hours and Days subject to change without notice.
S = Summer hrs. May–Sept. W = Winter hrs. Oct.–April

Cottage Grove:
78760 Sears Road, 541-942-8986
Wed. through Sat., 8-6 **All year**

Creswell:
34293 Cloverdale Road, 541-895-3274
Wed. through Sat., 8-6 **All year**

Florence:
2820 N. Rhododendron Drive, 541-997-6243
Mon. through Sat., 8-6 **All year**

GLENWOOD Central Receiving Station
3100 East 17th Ave., 541-682-4120
Oct.–Mar. Mon. through Sat: 8am–6pm
Apr.–Sept.: Mon. through Sat. 8am–6pm;
Sun.: 8am–5pm

London:
73111 London Road, 541-942-0120
Sat. only, S 8-6, W 9-5

Low Pass:
22377 Highway 36, Cheshire, 541-998-8215
Fri. & Sat., S 8-6, W 9-5

Mapleton:
13570 Highway 126, 541-953-0217
Sat. only, S 8-6, W 9-5

Marcola:
38935 Shotgun Creek Road, 541-933-2823
Wed. through Sat., S 8-6, W 9-5

McKenzie Bridge:
55805 McKenzie HWY, Blue River, 541-822-3748
S Sat., 8-6, Mon. & Thu., 1-6
W Sat., 9-5, Mon. & Thu., 1-5

Oakridge:
48977 Kitson Springs Road, 541-782-3923
Wed. through Sat., 8-6 **All year**

Rattlesnake:
82572 Rattlesnake Road, Dexter, 541-937-3403
Wed. through Sat., S 8-6, W 9-5

KEY

\$ Fees may apply. Call for information.

⊗ Illegal to throw away as garbage.

GLENWOOD = Glenwood Central Receiving Station (see map below).

SOME/ALL indicates that some or all County Transfer & Recycling sites accept this item, always at the discretion of staff. For details, call the County at 541-682-4120 or BRING Recycling at 541-746-3023.

THRIFT STORES

Goodwill 541-345-1801
The Salvation Army 541-343-3341
St. Vincent de Paul 541-345-0595

HIGHLIGHTED items are generally recyclable curbside—call your hauler for details.

Prescription Drugs

Unless clearly stated otherwise, these should NOT be flushed down the toilet.

Call your pharmacy or White Bird Clinic 541-342-1295 to see if they can use them.

Sharps (medical needles, scalpels, etc.) ALL
Place in a red, rigid container with a screw-top lid (like a detergent bottle).

HOUSEHOLD ITEMS AND "SOFT GOODS"

Books GLENWOOD
Textbooks, hard/paperback, computer manuals; NOT wet or moldy.
St. Vincent de Paul, 541-345-0595; International Paper, 541-744-4100

Furniture GLENWOOD
For recycling, must be 100% wood and hardware no bigger than a thumb. For reusable non-upholstered furniture, call BRING, 541-746-3023.

Carpet THRIFT STORES
Thrift stores ONLY if new and stain-free. If older and/or stained, use to smother weeds, protect garage floor, soundproof rooms, or list in "freebie" postings.

Candles, Wax, and Crayons
Goodwill Industries, 541-345-1801; MECCA, 541-302-1810

Clothing GLENWOOD
Thrift stores (see KEY above)

Ceiling Tiles
Armstrong World Industries, 1-888-CEILING

Luggage, backpacks, totes THRIFT STORES
AAA offices in Eugene or Springfield will donate these to a foster care program, 541-484-0661 or 541-741-8200

Mattresses and Box Springs \$ GLENWOOD
Only if clean and dry.
St. Vincent de Paul, 541-345-0595

Shoes (all brands) THRIFT STORES
(Athletic shoes only) Recycle at NIKE Store, 541-342-5155

Tile, Broken
MECCA, 541-302-1810

Tile, Reusable GLENWOOD
BRING, 541-746-3023

OTHER

Asphalt and Concrete \$ GLENWOOD
Delta Sand & Gravel, 541-688-2233

Building Materials GLENWOOD
Lumber, bricks, doors, windows, cabinets, flowerpots, garage doors, hardware, plumbing, and more.
BRING, 541-746-3023

Hearing Aids and Eyeglasses
Key Bank, 725 A Street, Springfield, or Oregon Lions Sight & Hearing Foundation, 800-635-4667

Corks
No plastic, composite, or metal closures.
BRING, 541-746-3023

For information on rural disposal and recycling sites, hazardous waste and paint disposal, or other Lane County Solid Waste Department issues and services, call 541-682-4120.

Get Involved

Learn Some Rotten Behavior

Free compost education classes are provided by the City of Eugene and OSU Extension Service. Learn how to be a really successful rotter!

For beginning to experienced composters, these hands-on workshops will cover the basics of composting, including what to compost, different methods of composting and types of compost bins. Workshops are led by knowledgeable backyard composting information specialists. Pre-registration is not required.

2011 Compost Workshops Schedule

Saturday, February 12	10 a.m. to noon	Transition Garden Project	OSU Extension Service
Saturday, March 5	10 a.m. to noon	River House Compost Education Site	City of Eugene
Saturday, March 12	10 a.m. to noon	GrassRoots Garden	City of Eugene
Saturday, March 19	10 a.m. to noon	BRING	OSU Extension Service

Transition Garden Project, 905 Flamingo, Springfield, next to Food for Lane County Youth Farm. Parking limited.

River House, 301 North Adams Street in Eugene.

GrassRoots Garden, 1465 Coburg Road in Eugene.

BRING, 4446 Franklin Blvd is near LTD's EmX line and the 85 bus route. The compost site is at the back of the property. Parking is limited.

Compost presentations will also be scheduled during the Good Earth Show (January 21-23), the Spring Home Show (March 11-13). Check show schedules for dates and times.

For more information about composting, contact the Lane County Master Gardener hotline at 541-344-0265. Or visit: <http://extension.oregonstate.edu/lane/gardens/compost>

EWEB Efficient Lighting Rebate

If you are an EWEB customer you can qualify for EWEB's ENERGY STAR® compact fluorescent light fixture rebate program.

EWEB customers can now get \$10 for the purchase of every ENERGY STAR qualifying compact fluorescent light fixture.

Light fixtures that have earned the ENERGY STAR logo combine quality and attractive design with the highest levels of energy efficiency available today.

Just go to <http://www.eweb.org/saveenergy/home/lightfixture> for a list of qualified fixtures and to download the form.



EWEB program requirements

- The product must be installed in a home served by EWEB electricity.
- Only permanently installed (hard wired) fixtures qualify for this rebate. Table top and portable (plug-in style) models are not eligible.
- The receipt must clearly show brand and model to verify the product meets Energy Star eligibility requirements.
- The product must be on the ENERGY STAR list of qualifying products at the time of purchase.

Reprinted from EWEB's webpage.

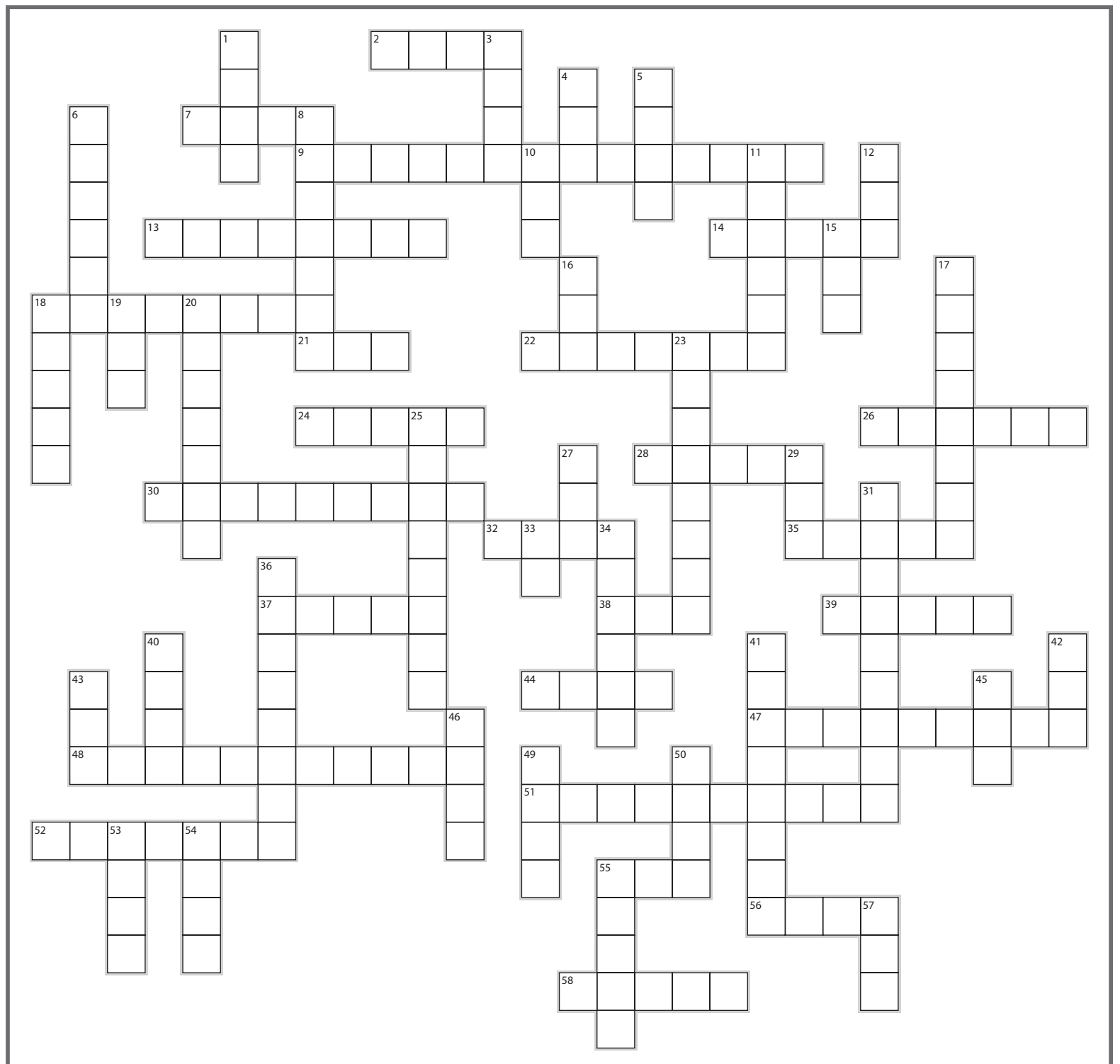
Emily's Cross Words

Across:

- Telescopic Arm.
- BRING customer favorite from Serbia.
- Please don't use these until you take them home.
- Who buys most of our stuff?
- Color your world with Metro _____ from Portland.
- This depression is green, not blue.
- Why the long face? Are you ____?
- Warehouse Maven.
- BRING home the bacon.
- We can't unload your vehicle unless you _____.
- BRING's own posh spike.
- Quarterly expo.
- BRING's Logo is one.
- Looks down on BRING and disrupts communication.
- Denizen of the bioswale.
- Not for sale.
- The cage is for material that we don't want people to _____.
- She's our smooth operator.
- _____ will unload your vehicle
- Jennifer Anniston is our favorite loaner.
- Price for bi-fold doors, commonly.
- _____ for humanity is a reuse store as well.
- We sell metro paint for \$13 _____ gallon.
- Darkens a window.
- Rhymes with "trap", abundant at BRING.

Down:

- "I like it, but it needs some _____."
- Dances with pallets in receiving.
- Also known as.
- She makes sure BRING operates by the books.
- The strong rock of the Bioswale.
- Yeah, we've got those too.
- A music genre frequently playing on BRING's stereo.
- Made of brass, like a lot of the merchandise in The Cage.
- A child.
- No, in French.
- What to say when the line is too long or you don't like the price.
- Even the tin man would end up in here if he stuck around long enough.
- Enacts sweeping changes
- Oh my gosh.



- Those not loafing.
- These customers don't just eat a lot of fiber.
- You don't need a key for it anymore.
- Attila the _____.
- Please wash your hands before you _____.
- Dry wall screws, for one.
- First letters in Aluminum Recycling.
- Who we get most of our stuff from.
- Shard.
- Every chicken needs one.
- BRING has a Daewoo, a Nissan and a Toyota.

- Cut a _____. (Dance)
- Augment your tool _____ at BRING.
- Think this will _____ in my Prius?
- Northwest native found in the Garden of Earthly delights.
- Sit, Fido. _____!
- Receiving closes at _____.
- Just one won't do you any good in our puddles.
- It's about _____ we had a crossword in the UsedNews.

- BRING's Frequent Buyer Card allows our cashiers to do this to our customers.
- BRING's fab fabricator.

Education

We Want to Educate You!

BRING's Education Program has been teaching Lane County folks, both young and old, to "reduce, reuse, recycle, and rethink" for over 30 years. We cover a broad scope, from climate change to worm composting and back to basics recycling.

Every school year, BRING Recycling provides FREE educational outreach to thousands of Lane County students and residents. We offer tours and interactive classroom visits for all ages!

Don't miss out!

What We Offer

School Visits

- Recycling assemblies
- In-class presentations on Reduce, Reuse, Recycle, and Rethink
- School-wide recycling assistance
- School-wide composting assistance
- Paper making – creativity and recycling all in one
- Origins of Stuff
- Vermicomposting (composting with worms)
- The Amazing Mandala made by your kids from bottle caps

Community Groups

Education isn't just for kids. BRING will come to your garden club, church group, senior community or community organization. Give us a call and let us design a tailor-made activity for you.

Field Trips

To understand our connection to natural resources, we offer tours of the Glenwood Central Receiving Station, Short Mountain Landfill, and the Planet Improvement Center. For a comprehensive 'Trail of Trash' do all three!

BRING's award winning education program, a free service, funded largely by Lane County Waste Management, reaches over 5,000 K-12 students and over 10,000 community members annually.

To schedule a class or tour, contact Brett Jacobs, Education Director, at 541-746-3023 or email: brettj@bringrecycling.org.

Reduce, reuse, recycle, and rethink.



A group of students at Ridgeline Montessori School learning about reuse.

RE:think Spotlight

Shedding Light on Energy Efficiency

The cleanest and cheapest form of energy use will always be energy efficiency. With this in mind, the RE:think Business Assistance Program takes a close look at energy conservation and efficiency. Approximately 30% of energy use in commercial buildings and office space is inefficient or unnecessary. Seventy percent of that wasted energy comes from lighting.

Lighting has changed a lot in the past several years and it continues to evolve.

Incandescent bulbs are becoming a thing of the past. By 2014, incandescent bulbs will be obsolete—for good reason. A compact fluorescent (CFL) uses 75% less energy and lasts 10 times longer.

Fluorescent lighting is an old but updated technology still used in many applications. Some offices and commercial buildings have switched to higher performing and energy efficient T8 and T5 light tubes and high performance ballasts, while many others still have older T12s. RE:think has worked with several businesses to upgrade their inefficient T12 lighting, saving them money and improving their work environment. A case in point is Windermere Real Estate.

Windermere's 15,000 square foot office space has a lot of lighting, much of it consisting of T12 lights with magnetic ballasts. A breakdown of costs, incentives, and savings made the project a no-brainer for Windermere owner, Matt Powell.

The entire project cost \$18,500. With rebates from EWEB and tax credits, Powell's out of pocket costs were just \$4,000. "The savings are worth the investment," Powell said. "I am saving \$4,500 per year on energy bills and the project will pay itself back in just nine months," he said. "Making the upgrades was a good financial decision. Maintaining and changing burned out lights cost \$70 to \$100 per month. The new light bulbs and ballasts have a three-year warranty that will save me an additional \$1,200 per year in maintenance costs," Powell added.

Once the workhorse in commercial lighting, the fluorescent magnetic T12 ballast and light tubes are now considered dinosaurs. No longer used in new construction, there are still millions of these ballasts installed in commercial buildings. Now, due to energy legislation, they are facing extinction. In 2011, T12 magnetic ballasts will no longer be

Dear Goddess of Garbage



The Goddess of Garbage is ready to answer your questions about all things wasteful. Let's talk trash!

Dear Goddess,

I keep having this aggravating argument with my coworker. He says turning on a light uses the same amount of electricity as letting it burn for a half hour and chastises me for wanting to flip the switch off when I leave a room. This makes no sense to me. Can you help?

Dark Is Better

Dear DIB,

I understand the confusion. This is one of those little jewels that keeps bouncing around. The reason it persists is that there is some truth in it. As is often the case with these things, the issue is more complicated than it first appears.

Starting up any light bulb does indeed draw a greater amount of electricity than the bulb uses to stay lit. However, this draw lasts a mere tenth of a second, and uses a very minimal amount of energy. [As an interesting side note, this is why bulbs tend to fail at start up. As a light bulb burns, it loses some of its filament. The momentary surge of electricity at start up can cause the thinned filament to overheat and break.] A light bulb has a limited functional lifespan before failure. Unfortunately, repeated startups shorten that span.

Therefore, on the one hand, turning bulbs off when you leave the room saves electricity and extends the working life of the bulb. On the other hand, it also uses up the starts faster,

thereby shortening the working life of the bulb. See the conundrum?

Where does this leave us? It depends on what you want. If your goal is to save money, look at the cost of the bulb compared to how long it functions and the cost of your electricity. Don't forget you may have to consider the time of day or a tiered electrical rate. If you want to save resources, consider the energy used during the entire lifespan of the bulb, which as all *UsedNews* readers know, includes the resources used to extract raw materials, manufacture the bulb, package it, retail it, operate it and finally dispose of it. Don't forget to adjust for the source of electricity used, remembering that wind, solar and other renewables create less pollution than producing electricity from burning coal. Are we getting overwhelmed by all this?

Let's make it simple shall we? In the Goddess' not always very humble opinion, unless you pop in and out of the same room more or less constantly, turn off the light. It's an easy rule of thumb and you'll be right far more often than not. If your coworker wants to go technical on you and argue the point, sweetly suggest that he do the math himself. Here's a good place to start: <http://www.thewatt.com/node/175>.

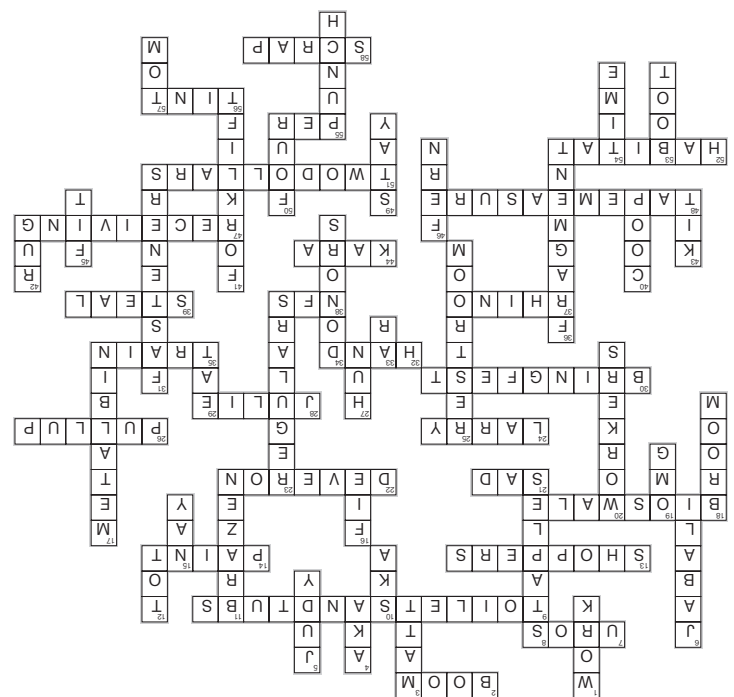
The Goddess

Do you have questions for the Goddess?

Send them to info@bringrecycling.org or 4446 Franklin Blvd., Eugene, OR 97403.

available for replacement and the tubes will be phased out by 2012.

Now is the time to upgrade to more efficient lighting. State tax credits as well as EWEB and SUB rebates make almost any project cost effective. If you have questions about your lighting or are curious how current energy legislation may affect your business, call your RE:think specialist at 541-746-3023 or send us an e-mail at info@rethinkbusiness.org.



Emily's Cross Words Solution

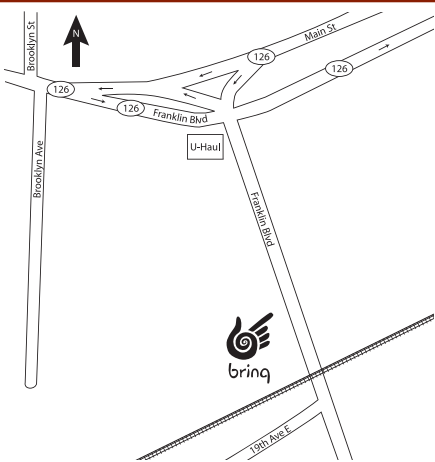


Reusable Building Materials at Bargain Prices

Donating your unwanted but usable building materials is tax deductible to the extent allowed by law. For a full list of what we accept, visit us at <http://www.bringrecycling.org/> or call us at 541-746-3023.

Shopping at the Planet Improvement Center reduces waste and greenhouse gas emissions, and saves you money. Here are some of the things you can expect to find in our retail outlet:

- | | |
|---------------------------|--------------------------|
| Aluminum Siding | Lumber |
| Bathroom Cabinets | Light Fixtures |
| Bookcases | Mirrors |
| Cabinets | Paneling |
| Canning Jars | Piping |
| Cabinet Doors | Plywood |
| Compost Bins | Plumbing and Accessories |
| Doors | Screens |
| Door Handles and Hardware | Screen Doors |
| Electrical Boxes | Shelves |
| Electrical Fixtures | Sinks |
| Faucets | Tools |
| Fiberglass Siding | Tables |
| Flower Pots | Tubs |
| Flooring | Tiles |
| Garage Doors | Toilets |
| Galvanized Siding | Utility Sinks |
| Gutters | Unexpected Treasures |
| Hardware | Windows |
| Kitchen Cabinets | |



Stock changes daily

If we don't have it today, we'll probably have it tomorrow.

OPEN SEVEN DAYS A WEEK
 Mon.-Sat. 9-5; Sun. 10-5; receiving until 4
 541-746-3023
 4446 Franklin Blvd. - in Glenwood

**Don't Dump It;
 Donate it!**

**Save money and the Earth;
 shop BRING first.**

BRING IS A TAX-EXEMPT NON-PROFIT AGENCY.
 ALL DONATIONS ARE TAX DEDUCTIBLE TO THE
 EXTENT ALLOWED BY LAW.

Shopping At BRING

With shorter days and longer nights, BRING shoppers will find amazing values in BRING's lighting department. The Planet Improvement Center stocks a huge assortment of lighting fixtures and accessories.

In our retail outlet, our inventory includes new in-box commercial grade lighting products. These represent the last of our stock from a substantial donation of fluorescent, halide and incandescent fixtures.

We have 8' two-tube fixtures, two-tube and "U"-tube troffer and surface mount fixtures. Additionally, we have a limited supply of under counter lighting available. This clean, new lighting is high quality and has been a hit with our customers.

We have several used "marine grade" bulkhead-type fixtures that are moisture proof. They are used and in nice shape, with cords and regular 110 volt AC power requirements.

We always have used, glass replacement shades, as well as used and surplus bulbs. We offer "tons" of new, used, and obsolete fittings, fixtures, and lighting hardware! Repair it, replace it, or change it today.

With Winter Weather Comes Indoor Shopping at BRING

As darkness descends upon us due to our tilt away from the Sun, you will find a bright spot inside BRING's Planet Improvement Center. Covered, lighted, and heated indoor shopping! The BRING Gallery will be filled with unique and interesting items that you absolutely can't miss. Antiques to electronics and everything in-between will be passing through the BRING Gallery starting in January. Be sure to check it out—often!

BRING Recycling's Frequent Reuser Reward Card

Now you can earn money with every purchase. Receive a stamp for every \$10 you spend. Thirty stamps earn you \$50 worth of used merchandise. It's our way of saying thank you to our dedicated reuse customers.



65 or Better?

Every Monday is Senior Discount Day at BRING Recycling's retail outlet! Seniors receive 20% off all used merchandise.

Upgrade Your Fluorescent Fixtures

Today's fluorescent tubes are much more efficient than in the past. The good news is you don't have to replace the entire fixture to take advantage of improved energy savings. With a little knowledge and a DIY mentality, converting an older T12 to a more efficient, modern ballast and bulb is surprisingly simple.

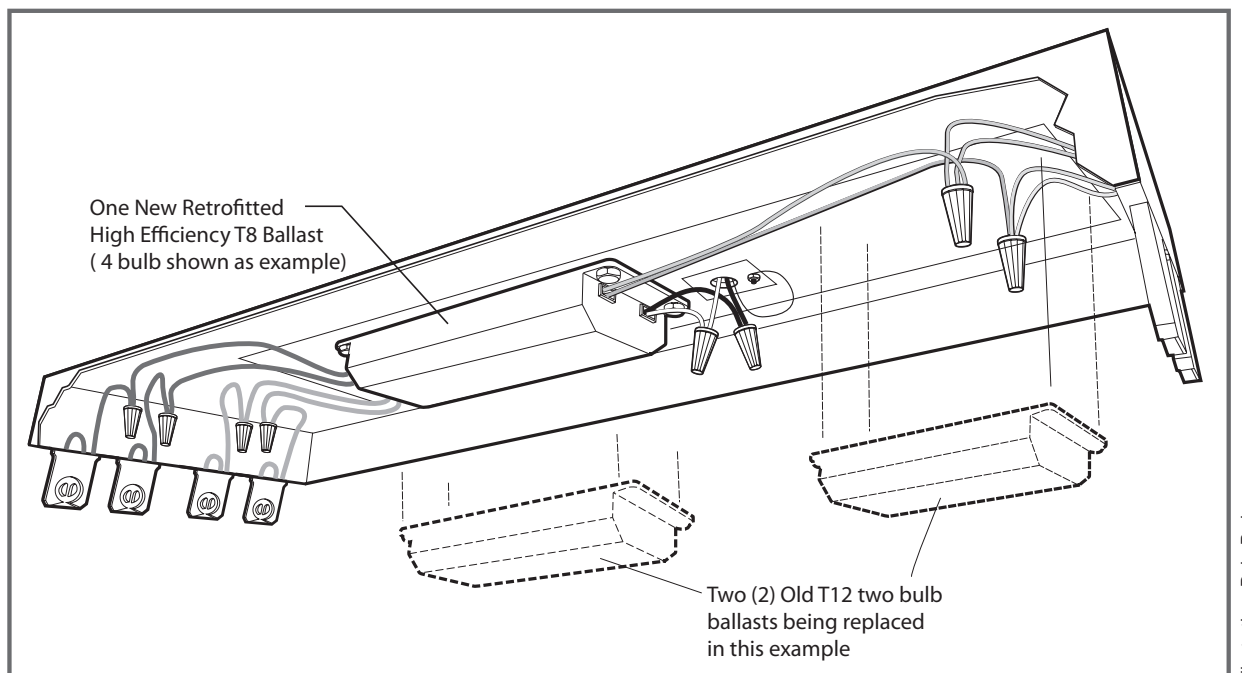
There are several websites that can lead you through the process. A good place to start is: <http://www.sparkfun.com/tutorials/126>.

Just to make sure we were offering good advice, we converted an older T12 single bulb fixture to a T8. Of course, since all of our fixtures in the BRING administration building are converted T12s we knew it couldn't be too difficult.

Not sure if you're up to the task? Look at the diagram, read through the website, and let your DIY side shine with an energy efficient upgrade.



Old T12 fixtures at BRING's Planet Improvement Center were converted to use more energy efficient T8 ballasts and tubes. By not buying new fixtures, we saved the energy and resources it would have taken to make new ones, and we reduced the energy we need for lighting.



The inside of a typical fluorescent tube fixture. Updating the ballast and the connectors is well within the range of the average Do-It-Yourselfer.

Illustration: Dale Parks

**For a free subscription to this newsletter, contact us at 541-746-3023.
 For a waste-free electronic subscription, sign up online at www.bringrecycling.org**