

*Waste Tire Commercialization
Grant Program*

Abstracts and Status Updates

Fiscal Years 1998–99 through 2003–04

December 2004



Zero Waste—You Make It Happen!

S T A T E O F C A L I F O R N I A

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Integrated Waste Management Board
Public Affairs Office, Publications Clearinghouse (MS-6)
1001 I Street
P.O. Box 4025
Sacramento, CA 95812-4025
www.ciwmb.ca.gov/Publications/
1-800-CA-WASTE (California only) or (916) 341-6306

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Introduction

The California Tire Recycling Act (Public Resources Code [PRC], section 42860 et seq.) requires the California Integrated Waste Management Board (CIWMB) to establish a statewide tire recycling program to:

- Reduce landfill disposal and stockpiling of waste tires.
- Recycle and reclaim waste and used tires, to the greatest extent possible, to recover valuable natural resources.

The Act provides the CIWMB with broad authority to consider and support a wide range of options for turning waste tires into useful products and diverting them from landfill disposal. PRC section 42872 authorizes CIWMB to award grants to businesses and public entities for activities that could expand markets for waste tires. The Tire Product Commercialization Grant Program is one way the CIWMB supports the development and marketing of tire-derived products.

During the early years of this program, the CIWMB funded diverse and innovative technologies to reach as wide an audience as possible and focused more on new technologies. Based on the lessons learned from these early experiences and an evaluation of these projects, the CIWMB gained a better understanding of inherent problems and possible solutions. As a result, this grant program has evolved over time toward funding more established technologies.

One of the important lessons learned from administering this grant program is that a range of marketing strategies are needed to foster markets capable of absorbing the annual generation of waste tires in California. One of these strategies includes funding grants ranging from supporting end-use markets—such as molded rubber products and crumb rubber manufacturing—to civil engineering uses and rubberized asphalt concrete. In the future, these grants will help decrease the number of waste tires disposed in landfills.

This report provides a summary of the \$8.58 million the CIWMB has awarded in 40 grants under this program during fiscal years 1998–99 through 2003–04.

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Summary by Fiscal Year of Tire Product Commercialization Grant Program

Grantee Name	Page #	FY 98–99	FY 99–00	FY 01–02	FY 02–03	FY 03–04	Total Awarded
AG Link, Inc.	3			\$250,000			\$250,000
B.A.S. Recycling, Inc.	4			\$250,000			\$250,000
Bay Area Tire Recycling, Limited Liability Company (LLC)	5				\$250,000		\$250,000
CRM Co., LLC	6, 7, 8	\$80,000			\$250,000	\$250,000	\$580,000
Eco-Block, LLC	9			\$250,000			\$250,000
EcoTerra Global Limited	11					\$250,000	\$250,000
Environmental Molding Concepts, LLC (EMC)	12			\$245,000			\$245,000
Global Rubber West, Inc.	13					\$250,000	\$250,000
Golden By-Products, Inc.	14, 15, 16	\$80,000		\$250,000		\$250,000	\$580,000
GreenMan Technologies of California, Inc.	17				\$250,000		\$250,000
Grubble Products, LLC	18					\$242,000	\$242,000
Hansen Rubber Products, Inc.	19				\$250,000		\$250,000
Huffco Manufacturing, LLC	20, 21			\$250,000	\$250,000		\$500,000
Hunter Paine Enterprises, LLC	22				\$250,000		\$250,000
Lakin Tire West, Inc.	23, 24, 25, 26	\$80,000	\$99,990		\$500,000*		\$679,990
Recovery Technologies Group of California	27				\$249,998		\$249,998
Redwood Rubber LLC	28	\$80,000					\$80,000
Rubbersidewalks, Inc.	29, 30			\$250,000	\$250,000		\$500,000
Rydean Molded Products, Inc.	31					\$240,780	\$240,780
Three D Traffic Works, Inc.	32					\$250,000	\$250,000
Total Tire Recycling, LLC	33				\$250,000		\$250,000
Tri-C Manufacturing, Inc. dba Tri-C Tire Recycling	34					\$250,000	\$250,000
U.S. Rubber Recycling, Inc.	35, 36		\$100,000	\$250,000			\$350,000
US Century, LLC	37	\$80,000					\$80,000
Van-Duerr Industries	38				\$230,000		\$230,000
Waste Recovery West, Inc.	39		\$100,000				\$100,000
Waste Tire Products	40, 41			\$184,389		\$250,000	\$434,389
West Coast Rubber Recycling, LLC	42, 43				\$234,801	\$250,000	\$484,801
TOTAL FUNDS AWARDED		\$400,000	\$299,990	\$2,179,389	\$3,214,799	\$2,482,780	\$8,576,958
Total Number of Grants Awarded		5 grants	3 grants	9 grants	13 grants	10 grants	40 grants total

*Includes two separate grants for \$250,000 each.

Note: The Board awarded no grants in FY 2000–2001 due to Senate Bill 876 and the development of the five-year tire plan.

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: AG Link, Inc.							
Grant Number:	TR25-01-5440	Grantee Name:	AG Link, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Rob Nairn, CFO	Phone Number:	(209) 669-0621	Address:	13211 W. Sunny Acres Turlock, CA 95380		
Project Summary:	<p>Ag Link will purchase and install a re-vulcanization molding system to manufacture re-vulcanized, high quality, and interlocking mats from all black crumb rubber. This operation will be set up by December 2002 with a goal to mold, sell and ship a minimum of 50,000 mats annually (250,000 PTE) by December 2003. Ag Link will purchase and install the necessary equipment, secure a supply of 12-20 mesh crumb rubber from a California crumb rubber producer, manufacture molded mats, and market them through retail outlets such as US Farm System of Tulare. The current demand for molded rubber mats on the west coast is being filled by out-of-state manufacturers. By developing a California facility, not only will Ag Link utilize California tires, it will have a geographical advantage for the west coast markets.</p>						
Proposed Annual Tire Diversion (PTE):			250,000	Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		250,000		Status Date:	September 1, 2004		
Final/Progress Report:	<p>This project was and continues to be successful. Ag link used its considerable resources by working with a number of engineers, innovative contractors, and consultants to design a one-of a kind Waste Tire Recycler.</p>						
Current Status:	<p>Short-term goals are to fully establish the mat manufacturing production to supply the initial “stall mat” markets (50,000 mats/year) for the Northwest, through its relationship with Recycled Technology, Inc. of Tualatin, Oregon. Long-term goals are to increase mat manufacturing production to build into California, southwest, and export markets with stall mats and to expand product line to include dairy mats, decorative garden/patio mats, etc. With this type of equipment, the long-term goals had to be considered in the initial phases of development and construction. The \$250,000 grant is a fraction of the total project cost. The press capacity well exceeds the 250,000 PTE consumption level. 2004 has been the startup year for this press operation. They may fall short of the 250,000 PTE level this calendar year. They are confident 250,000 PTE will be consumed in 2005 and forward.</p>						
Additional Comments:	<p>Ag Link intends to stay in California.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: B.A.S. Recycling, Inc.							
Grant Number:	TR21-01-5327	Grantee Name:	B.A.S. Recycling, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Michael Harrington	Phone Number:	(909) 383-7050	Address:	1400 North H Street San Bernardino, CA 92405		
Project Summary:	<p>Operating since 1989, B.A.S. Recycling, Inc. is the largest tire recycler in California. The company installed ambient grind equipment to allow B.A.S. to recycle an additional 600,000 PTEs of California waste tires annually. The ambient grind system will be in full production within 180 days after CIWMB gives notice to proceed. The clean wire system will be installed within 360 days of CIWMB giving notice to proceed. B.A.S. project and operations management will lead the project with outside contractors designing it. The ambient grind system will allow B.A.S. to recycle only California waste tires and will permit the firm to fulfill long-term contracts. It will enable the company to divert a minimum of 600,000 waste tires annually. The clean wire system will allow B.A.S. to recycle the steel it currently sends to the landfill (600 tons monthly) because of contamination from tire rubber.</p>						
Proposed Annual Tire Diversion (PTE):			600,000		Grant Status:	Closed	
Results							
Actual Tire Diversion (PTE):		650,000			Status Date:	September 1, 2004	
Final/Progress Report:	Grantee indicates all of the equipment was purchased, installed, and is in full operation.						
Current Status:	Project is complete and in full production. Actual production is reportedly slightly higher than original estimates. The company intends to focus efforts on improving operational efficiencies and has no plans to expand or relocate.						
Additional Comments:	Grantee indicates the company has been in California for 15 years and plan to stay. Their short term goals include expanding distribution and continuing to automate and increase product capacity. In California, energy-efficient production equipment is key.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Bay Area Tire Recycling (BATR)							
Grant Number:	TR26-02-0026	Grantee Name:	Bay Area Tire Recycling (BATR)	Amount Awarded:	\$250,000	Fiscal Year:	2002–03
Primary Contact:	Richard Goldman, Manager	Phone Number:	(310) 209-7286	Address:	2615 Davis Street San Leandro, CA 94577		
Project Summary:	Purchase equipment to increase annual production.						
Proposed Annual Tire Diversion (PTE):		1.1 million PTEs per year		Grant Status:	Grantee is not active—business is closed		
Results							
Actual Tire Diversion (PTE):		PTEs not fulfilled		Status Date:	September 1, 2004		
Final/Progress Report:	Due to market conditions, grantee could not fully complete grant project.						
Current Status:	Grantee is no longer in business. Arrangements were made with grantee to recover a portion of the grant funds.						
Additional Comments:	The matter has been concluded.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: CRM Co., LLC							
Grant Number:	TR11-98-2768	Grantee Name:	CRM Co., LLC	Amount Awarded:	\$80,000	Fiscal Year:	1998-99
Primary Contact:	Barry Takallou, Vice President	Phone Number:	(310) 538-2222	Address:	15800 S. Avalon Blvd. Compton, CA 90220		
Project Summary:	Increase production efficiencies and incorporate changes, modifications, and additions to the next generation of recycling equipment.						
Proposed Annual Tire Diversion (PTE):		1,000,000 PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		1,000,000 PTEs		Status Date:			
Final/Progress Report:	CRM still uses the equipment to produce crumb rubber. They would like to improve this single drive system to a dual drive and improve the rate of production.						
Current Status:	Mr. Takallou attributes successes to constant analysis of business. The price of the market must be checked every eight hours. Adjusting the course of business is the key to success. He doesn't believe in subsidies because they cause unnecessary dependencies for businesses. Mr. Takallou believes the money should be put in the marketing side of the industry.						
Additional Comments:	Mr. Takallou indicates, "low cost producers need to make production of crumb rubber more efficient using manpower, energy, maintenance, packaging, as consideration."						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: CRM Co., LLC							
Grant Number:	TR26-02-0006	Grantee Name:	CRM Co., LLC	Amount Awarded:	\$250,000	Fiscal Year:	2002-03
Primary Contact:	Barry Takallou, President	Phone Number:	(310) 538-2222	Address:	15800 S. Avalon Blvd Compton, CA 90220		
Project Summary:	To install an advanced tire granulation system to increase crumb rubber production capacity by 13 million pounds annually.						
Proposed Annual Tire Diversion (PTE):		1.1 million PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Mr. Takallou has purchased and installed most of the equipment as indicated in the grant agreement. The system is up and running. It is at full capacity. CRM will be able to meet the PTE requirement due to a new contract just received. Mr. Takallou saves energy by running the equipment at efficient hours.						
Additional Comments:	Mr. Takallou indicates, "Low cost producers need to make production of crumb rubber more efficient using manpower, energy, maintenance, packaging, as consideration." CRM still uses the equipment to produce efficiencies in their crumb rubber business. They would like to improve this single drive system to a dual drive and improve the rate of production.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: CRM Co., LLC							
Grant Number:	TR37-03-0002	Grantee Name:	CRM Co., LLC	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Barry Takallou, President	Phone Number:	(310) 538-2222	Address:	15800 S Avalon Blvd. Compton, CA 90220		
Project Summary:	CRM Company is proposing to install an advanced tire shredding system at its major tire recycling facility in Compton to produce a new wire free tire chips (3/4" nominal) product. This system will consist of a tire liberator and wire free re-claimer, allowing CRM to produce a unique wire free tire chip to be used in manufacturing of rubber roofing products. This new product line will create a new market for California waste tires and re-divert an additional 600,000 waste tires from California						
Proposed Annual Tire Diversion (PTE):		600,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTEs):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Only in operation two months, Grantee is pursuing purchasing of equipment.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Eco-Block, LLC							
Grant Number:	TR21-01-5316	Grantee Name:	Eco-Block, LLC	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Thomas M. Horan	Phone Number:	(805) 499-8856	Address:	1260-1 Newbury Rd, Ste 102 Newbury Park, CA 91320		
Project Summary:	Eco-Blok, LLC is seeking this grant to manufacture and market a new product for use in erosion control. The product, Eco-Blok, will be molded from recycled crumb rubber and have a weight of 30 lbs. or 1.5 CTE per unit. This product will provide a more durable, more versatile alternative to sand bags for the control and elimination of groundwater runoff and pollution. Estimates indicate that California home builders alone use more than 5 million sand bags each year. Eco-Blok will provide an economically and environmentally sound alternative. Even at minimal market penetration, Eco-Blok would consume more than 250,000 PTE each year.						
Proposed Annual Tire Diversion (PTE):			250,000 PTEs		Grant Status:	Closed	
Results							
Actual Tire Diversion (PTE):		31,917		Status Date:	September 7, 2004		
Final/Progress Report:	In the final report, the grantee indicates that the project was not brought to full commercialization within the 20 months of the grant. This was due to many business reasons outlined specifically in the final report in detail. The grantee has indicated that the product remains a viable business venture and still believes it has strong growth potential. The grantee believes the program will fulfill the mandate of the tire program's 250,000 PTEs in the coming year. Staff does reserve the right to follow up on the success of the product for future performance evaluation.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Current Status:	<p>Eco-Blok, LLC is currently using several manufacturers in California to mold their products and is using California recycled rubber in increasing amounts. Since each Eco-Blok™ weighs 30 lbs and each pallet has 80 bloks, a typical order for is 160–240 bloks, or about 7,200 lbs of rubber. Eco-Blok’s immediate goals are to increase sales and reduce cost of transportation. They expect business to grow further since they are negotiating a national distribution agreement with the largest industrial and home supply company in the world. Most of their product is shipped out of California. They have developed excellent relationships with similar businesses and other grantees creating a synergy that is an excellent example for other businesses. Eco-Blok has just been recognized as a certified contractor to the federal government. They recently embarked upon a high priority project to use their product to provide protection for our military troops around the world, and especially in Iraq. They are moving rapidly ahead on this project, but details are limited due to the nature of the project. They have also been approached by other departments of the federal government to discuss projects for flood control in developing countries and for emergency flood control in Florida. Many of their sales come as a result of inspectors who recommend their product for consideration to contractors and builders. They continue to advertise monthly in national magazines for the erosion control and public works projects. They participate in major trade shows for the industry. “We showed at the Stormwater STORMCON '04 show in Palm Springs in May 2004, and we will be at the APWA Public Works Show in Atlanta, Georgia, next week and also at the IECA Show in Dallas, Texas, February 2005.”</p>
Additional Comments:	<p>Eco-Blok said, “We really get little recognition from California State entities for using recycled goods. We still must compete for business, with no real advantage because we are a recycled product. Because we are new technology, it is taking a while for us to be recognized, but we are very encouraged; builders and government people don’t move quickly. We still get a great deal of interest from other states. Much of our business comes from web inquiry and trade shows. We have received no referrals, inquiries, or business from CIWMB or related entities involved in the program (Recycle Store, etc). I would have expected at least some activity from these areas.”</p>

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: EcoTerra Global Limited							
Grant Number:	TR37-03-0004	Grantee Name:	EcoTerra Global Limited	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Ernest Moore, Chairman and CEO	Phone Number:	(831) 386-9900	Address:	P.O. Box 2497 King City, CA 93930		
Project Summary:	EcoTerra Global Limited intends to manufacture high quality recycled replacement tires (remolds) for 4x4, SUV, passenger car and commercial van vehicles. EcoTerra will set its remolds for 25-35 percent less than comparable new tires, save motorists 5-7 percent on fuel because of lower rolling resistance compounds, increase tire mileage by 10-15 percent and internally consume 4-5 lbs of recycled rubber compound for tread stock, sidewalk veneer and cushion gum materials. EcoTerra has developed an exclusive higher use refined and purified rubber crumb recycled from scrap tires that enables over 60% of this recycled material to be mixed with new polymers thus tripling the amount of rubber crumb that is used to produce EcoTerra's fuel savings and longer life tread compounds						
Proposed Annual Tire Diversion (PTE):			500,000 PTE		Grant Status:	Active	
Results							
Actual Tire Diversion (PTE):		Not applicable			Status Date:	September 1, 2004	
Final/Progress Report:	Not applicable						
Current Status:	Project is on track with new employees identified and expected to start work on October 18, 2004. Equipment is expected to arrive late October or early November.						
Additional Comments:	If remolds become a viable product, it could have a significant impact on many areas of tire recycling.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Environmental Molding Concepts, LLC (EMC)							
Grant Number:	TR21-01-5331	Grantee Name:	Environmental Molding Concepts, LLC (EMC)	Amount Awarded:	\$245,000	Fiscal Year:	2001-02
Primary Contact:	Michael Harrington	Phone Number:	(909) 383-7050	Address:	1400 North H Street San Bernardino, CA 92405		
Project Summary:	<p>EMC makes tiles from crumb rubber—for playground surfacing and residential use—and has increased sales from \$323,000 to \$1.3 million during the past three years. The company plans to purchase and install a press to allow EMC to produce additional tile sizes and styles in demand by day care facilities, nursing homes, the sports market, and for use in patios, decks, and play areas. The equipment will be purchased and installed within six months from the CIWMB “notice to proceed.” EMC project and operations management will lead the project. EMC sees an expanding market for crumb rubber tiles, but currently only produces 24" x 24" tiles. The market for larger tiles is significant, according to purchasers of EMC’s tiles and the company’s network of distributors. The vertical integration of B.A.S. crumb rubber as feedstock for EMC’s tiles allow for greater company stability. This project will divert a minimum of 350,000 PTEs of California waste tires annually.</p>						
Proposed Annual Tire Diversion (PTE):			350,00 PTEs Annually	Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		First 5 months 125,000 PTEs		Status Date:	September 1, 2004		
Final/Progress Report:	This grant closed in April 2004. Grantee reports success with the project.						
Current Status:	The project was started in January 2004 and is not yet in full production. Original estimate of 350,000 PTEs is still appropriate.						
Additional Comments:	Grantee hopes to expand distribution and continue to automate and have more efficient product line to reduce product defect. This will enable a lower price for the consumer and allow for a better price competition. The long-term goals of the grantee are to expand product line, upgrade products, and to continue to increase product capacity. The company plans to stay in California.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Global Rubber West, Inc.							
Grant Number:	TR32-03-0005	Grantee Name:	Global Rubber West, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Mike Hovsepian, President	Phone Number:	(610) 878-9200	Address:	451 Yerkes Rd. King of Prussia, PA 19406		
Project Summary:	Global Rubber West, Inc. a subsidiary of Global Rubber, Inc. of Pennsylvania, proposes to expand its mat manufacturing capacity to a California location. This grant will assist in the procurement of the additional funds necessary to complete the project equipment funding. Current west coast demand for our products will require 5 million pounds of crumb rubber annually. The grant funds offered would make California the logical location for the expansion.						
Proposed Annual Tire Diversion (PTEs):		500,000 PTE		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 7, 2004		
Final/Progress Report:	Not applicable						
Current Status:	The company is in the process of purchasing the equipment and plans to be in production in March 2005. They plan to continue operations in California.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Golden By-Products, Inc.							
Grant Number:	TR11-98-2763	Grantee Name:	Golden By-Products, Inc.	Amount Awarded:	\$80,000	Fiscal Year:	1998-99
Primary Contact:	Karen Barstow, Chief Financial Officer	Phone Number:	(209) 668-4855	Address:	13000 Newport Road PO Box 1 Ballico, CA 95303		
Project Summary:	Acquire additional equipment and make necessary facility changes for the production and delivery of an uninterrupted supply of tire-derived fuel chips to Stockton Co-Gen. The TDF project goal of Golden By-Products is to develop a cost-effective method of producing 2" Nominal Relatively-Bead-Wire-Free TDF chips to consume a large number of California's scrap tires. The grant was to purchase a primary shredder and classifier to produce 2" nominal TDF						
Proposed Annual Tire Diversion (PTE):		10,000 tons per year		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		Exceeds 10,000 tons per year		Status Date:	September 7, 2004		
Final/Progress Report:	<p>The company purchased a primary shredder for all tire shredding operations. It feeds two secondary shredders that generate product, which is processed through a classifier purchased with this grant project. The primary product made by this shredding operation is still the 2" nominal Tire Chip Fuel (TCF). Currently Golden recycles 4 million (40,000 tons) in northern California tires annually. About 12,000-13,000 tons of TCF is shipped to the Stockton CoGen annually. A second CoGen facility is scheduled to come online very soon that could consume as much or more than Stockton CoGen. All of Golden's tires are processed through this stage of the shredding operation, regardless of their destination. Products not being shipped as TCF are processed further into crumb rubber for various markets.</p>						
Current Status:	<p>Golden continues to use the grant equipment for its original intended use. Supplying up to 30,000 tons per year to CoGen facilities, all additional material processed for crumb rubber markets. Golden only recycles California waste tires.</p>						
Additional Comments:	<p>We had estimated the capacity of the operation to be 10,000 tons per year in the grant application (including the equipment purchased with grant funds). We have met and exceeded that volume not only in processing but also in actual shipments to the end markets from calendar year 2000 through present.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Golden By-Products, Inc.							
Grant Number:	TR21-01-5322	Grantee Name:	Golden By-Products, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Karen Barstow, Chief Financial Officer	Phone Number:	(209) 668-4855	Address:	13000 Newport Road PO Box 1 Ballico, CA 95303		
Project Summary:	<p>Golden By-Products, Inc. will purchase, manufacture, and install the equipment necessary to produce all black crumb rubber from commercial truck tires for: 1) molded rubber products, 2) rubberized asphalt, 3) poured-in-place, and 4) loose-fill applications. This project is scheduled for development during calendar year 2002 and 2003. Utilizing CIWMB grant funding and private lending sources, Golden will purchase and manufacture the equipment to add this processing system to its existing tire recycling operation: a) primary steel liberator/granulator, b) secondary granulator, and c) cracker mill. Golden has planned this phase of its tire operation since it began in 1997. Golden's established tire volume and financial stability provides the opportunity to capitalize on new market demand for crumb rubber.</p>						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		260,000 PTEs per year		Status Date:	September 1, 2004		
Final/Progress Report:	<p>This project was very successful in meeting the goals. Golden's future intent is to continue its growth and vertical integration in the scrap tire recycling business. The company intends to increase its acquisitions to 5 million tires annually, recycling half of the northern California annual waste generation.</p>						
Current Status:	<p>The equipment is used to make steel free ¾" tire crumb for loose-fill playgrounds and landscape markets. The by-products are further processed into crumb for other markets. The company will continue to produce and market the ¾" steel free crumb for playgrounds and landscape (currently colored and marketed by Ag Link, Inc. as Rubber Bark). The company will continue processing the by-products into crumb rubber for other markets (namely feedstock for molded rubber mats), and it will continue to use the equipment for its original intended use. Currently Golden recycles 4 million (40,000 tons) northern California tires annually. Long term goals would be to handle 5 million tires annually with 2-2.5 mm sold as TCF, 1 mm sold as Rubber Bark, 1 mm sold as molded rubber products, and ½-1 mm sold for RAC and/or into other crumb rubber markets.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Additional Comments:	<p>Through our experience we continue to reaffirm and learn that this industry is very “chicken and egg”-like. Proven, developed markets are essential to the success of any tire recycler; however, in order to entertain any market that will consume a volume of material at an economically feasible price, a tire recycler must be able to produce a significant volume of specified products at a reasonable price. This means a great deal of risk to the recycler (and their lender) in capitalization time and expense. Golden only recycles California waste tires. Full-scale online production from this equipment started in April 2003. Golden experienced an unexpected setback in sales generated from the product made by this equipment when the original relationship (established to buy, color, and sell the loose fill playground and landscape product) failed after eight months of production. Because of a delayed start and the market setback, Golden sold/shipped 231,900 PTEs of product from this “equipment” in the calendar year 2003 (first year of operation). Golden is on target to meet and exceed the 250,000 PTE requirement in 2004 and every year from here forward.</p>
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Grantee Information: Golden By-Products, Inc.							
Grant Number:	TR37-03-0001	Grantee Name:	Golden By-Products, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Jana Nairn, Corporate Secretary	Phone Number:	(209) 668-4855	Address:	PO Box 1 Ballico, CA 95303		
Project Summary:	Golden By-Products, Inc. will purchase and install an Artisan Machine Dual Drive (High Speed) Cracker Mill. The project will take place during the specified grant term (June 2004–April 2006). Golden will utilize grant funding private lending sources to finance the project. Golden will add this applied technology into its existing commercial phase to increase the recycling capacity of its facility.						
Proposed Annual Tire Diversion (PTE):		500,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	This grant just started two months ago. Grantee is pursuing the purchasing of the equipment.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: GreenMan Technologies of California, Inc.							
Grant Number:	TR31-02-0001	Grantee Name:	GreenMan Technologies of California, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2002–03
Primary Contact:	Jim Dodenhoff, Vice President	Phone Number:	(626) 633-1174	Address:	1501 W. Gladstone Avenue P. O. Box 230 Azusa, CA 91702		
Project Summary:	To finalize production processes for the FlexShake Recycling Project. This is a passenger tire recycling project that will produce roofing shingles for the construction industry along with granulated rubber for landscaping, animal bedding, and playground applications. They will optimize the commercial production of passenger tire recycling into products such as roofing shingles and granulated rubber for landscaping.						
Proposed Annual Tire Diversion (PTE):		1 million PTEs		Grant Status:	Closed—withdrawn		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Grantee has withdrawn from the project.						
Current Status:	Grantee has decided to withdraw from the grant project. However, no grant funds were expended. The project was started almost a year late due to paperwork issues and because it was a grant funded with reallocation funds. Grantee did have some grant-related expenditures but chose not to claim them.						
Additional Comments:	Grantee had not submitted any expenses.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Grubble Products, LLC							
Grant Number:	TR32-03-0011	Grantee Name:	Grubble Products, LLC	Amount Awarded:	\$242,000	Fiscal Year:	2003-04
Primary Contact:	Ronald Allevato	Phone Number:	(949) 551-0363	Address:	P.O. Box 279 East Irvine, CA 92650		
Project Summary:	The CIWMB Flex-o-Curb project entails fabrication of seven low-compression multi-cavity steel molds which will make Flex-o-Curb, a molded 100 percent California recycled rubber border that fills a need for a safe product able to contain loose-fill ground cover material in both commercial and residential playgrounds and other landscape applications. Project also includes research and development and marketing resources and personnel to promote use of Flex-o-Curb borders.						
Proposed Annual Tire Diversion (PTEs):		245,000 PTE		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Design work for the first mold is complete and should be completed in about six weeks. Marketing efforts have commenced via mail and trade publications. Sales of playground chips are good.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Hansen Rubber Products, Inc							
Grant Number:	TR31-02-0003	Grantee Name:	Hansen Rubber Products, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2002–03
Primary Contact:	Steve Hansen, CEO	Phone Number:	(661) 589-2712 or (661) 330 0415	Address:	10212 Planebrook Ave. Bakersfield, CA 93312		
Project Summary:	To manufacture and track test 30,000 railroad ties produced from 100 percent recycled waste tire rubber and obtain approval from the railroads for commercial use on rail systems.						
Proposed Annual Tire Diversion (PTE):		750,000 PTEs		Grant Status:	Closed—withdrew from grant		
Results							
Actual Tire Diversion (PTE):		None—withdrew		Status Date:	August 13, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Withdrew from grant						
Additional Comments:	Paperwork was the reason Steve Hansen withdrew. He thought the cost of doing the paperwork would be more than the cost of the grant. Mr. Hansen called and indicated he is not out of business and has a patent worth billions. He anticipates working with the crumb rubber facility on the Indian reservation in Indio and using up to 8 million tires annually.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Huffco Manufacturing, LLC							
Grant Number:	TR21-01-5329	Grantee Name:	Huffco Manufacturing, LLC	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Dale Huff, President/CEO	Phone Number:	(209) 906-4930	Address:	4447 So. Airport Way Stockton, CA 95206		
Project Summary:	<p>Huffco has manufactured recycled tire rubber mats since 1995. Its line of floor mats is sold here, in Canada and Europe, and major retail customers carry the line. Last year it consumed more than 3.5 million pounds of crumb rubber and buffings. Huffco needs to expand its capacity and automate more of its processes. This will allow it to integrate the operation of R.C.L. with Huffco, allowing Huffco to grind R.C.L.'s waste tire rubber and produce crumb or playground molds.</p> <p>The project will take 180 days. Huffco will purchase 20 molds to increase capacity for rubber mats and introduce new mat products, 4 molds for a new floor tile product line, 4 molds for dock bumpers, an automated press molding system, a new rubber mixing system and die cutting equipment for floor tiles and mats. Rapid growth in the molded rubber products industry and commitments to buy Huffco's products provides the impetus for securing additional equipment.</p>						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable; grant doesn't close until April 2005.						
Current Status:	The company continues to grow as it expands sales to the largest retail customers such as Target, Sears, and Home Depot. Price pressure is coming from India and Asia, just like every other industry. However, Huffco is able to compete by importing other textile products to complement its entire selection of doormats and effectively manage the entire category for the customer.						
Additional Comments:	We have learned that project quality is usually more important than buying the lowest price. We look for healthy vendors who stand behind their work and provide follow-up service in the future.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Huffco Manufacturing, LLC							
Grant Number:	TR31-02-0004	Grantee Name:	Huffco Manufacturing, LLC	Amount Awarded:	\$250,000	Fiscal Year:	2002-03
Primary Contact:	Dale Huff, President/CEO	Phone Number:	(209) 906-4930	Address:	4447 So. Airport Way Stockton, CA 95206		
Project Summary:	Purchase new equipment to expand production of recycled rubber doormats in order to keep pace with expanded sales, increase the amount of California crumb rubber purchased from local processors, and reduce the amount of tire rubber disposed in landfills.						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	This grant only started two months ago. Grantee is currently pursuing the purchase of equipment.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Hunter Paine Enterprises, LLC							
Grant Number:	TR31-02-0005	Grantee Name:	Hunter Paine Enterprises, LLC	Amount Awarded:	\$250,000	Fiscal Year:	2002–2003
Primary Contact:	Al Filart, Director/Project Manager	Phone Number:	(925) 299-2930	Address:	One Arbor Way Lafayette, CA 94549		
Project Summary:	Project is to set up a commercial scale plant for the development, design, and manufacture of materials handling and shipping pallets constructed from engineered materials which are produced from waste tires and recycled paper using a proprietary process.						
Proposed Annual Tire Diversion (PTEs):		250,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 7, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Since the grant award 12 additional employees were hired another 20 will be hired by year-end. The equipment purchased by the grant is just now being installed in the plant. We'll start using the equipment by the end of September 2004. Within 12 months we should be producing 2 million pallets a year. This would exceed the proposed 250,000 PTEs/yr proposed in the grant. We will be using the equipment for the original intended use and will be expanding the line 3 times within 6 months.						
Additional Comments:	HPE is on its way to growth. The sales reception of Lexite™ in the private and public market worldwide has been exceptional. We plan to build five stand-up 16-line plants throughout North America and expand worldwide within a five-year period. Design and implementation of new processes and equipment always takes longer and is more difficult than planned. The cost is also more than budgeted. A sizeable worldwide market demand exists for an engineered wood substitute made from recycled or indigenous waste material. HPE will meet and exceed its goal within 12 months of operation.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Lakin Tire West, Inc.							
Grant Number:	TR11-98-2759	Grantee Name:	Lakin Tire West, Inc.	Amount Awarded:	\$80,000	Fiscal Year:	1998-99
Primary Contact:	Randal S. Roth, Vice President	Phone Number:	(562) 802-2752	Address:	15305 Spring Street Santa Fe Springs, CA 90670		
Project Summary:	Modify installation of equipment at new waste tire processing facility to include a Triple S, 2" shredder and dynamic vibrating conveyor with Taper slot screen to produce 2" tire chips. In-gall conveyor system would feed shreds from Triple S and 2' screen and return to Triple S for regrind. The 2' accepts would be used as co-gen fuel. Public information and education programs to set up website, support curriculum development for high school and junior high school. Brochures and tours of facility for selected groups. Est. diversion of 1 million tires to fuel augmentation. Promote market for 2' chips in additional applications.						
Proposed Annual Tire Diversion (PTE):			1,000,000 PTEs		Grant Status:	Closed	
Results							
Actual Tire Diversion (PTE):		2.5 million PTEs per year			Status Date:		
Final/Progress Report:	The implementation of the project went as planned. Waste tire processing began operation in July 2000 at the new Lakin Tire West, Inc.						
Current Status:	At time of grant Lakin was unable to meet its PTE requirement. They have now exceeded their requirements. Equipment is currently being used for its intended purpose. Grantee indicates the equipment is used every day and diverts 70 tons of production from land filling, crumb use, and TDF. Lakin created a website that is still in operation. They've visited Jr. and Sr. High Schools. Brochures are available and tours are still conducted at the Lakin location.						
Additional Comments:	Their short-term goals include diversifying end uses and diverting 2.5 million PTEs toward TDF. Long-term goals include continuing to provide the best services and process more PTEs to higher end uses.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Lakin Tire West, Inc.							
Grant Number:	TR15-99-3206	Grantee Name:	Lakin Tire West, Inc.	Amount Awarded:	\$99,990	Fiscal Year:	1999–2000
Primary Contact:	Randal S. Roth, Vice President	Phone Number:	(562) 802-2752	Address:	15305 Spring Street Santa Fe Springs, CA 90670		
Project Summary:	Develop an innovative “Custom Feedstock Sortation System” to separate waste tires for processing by end users (crumb rubber and roofing shingles) that require specific strict quality control standards. The processing line will be incorporated into the newly permitted waste tire facility and divert 1 million waste tires to market.						
Proposed Annual Tire Diversion (PTE):		1,000,000 PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTEs):		1,000,000 PTEs		Status Date:	September 1, 2004		
Final/Progress Report:	The equipment purchased and installed as a result of this grant will continue to function to meet the growing needs of crumb rubber producers and other end users in California. Numerous problems that required affirmative action by Lakin Tire were required during this project. All proposed changes have been designed by the engineering subcontractor and were implemented.						
Current Status:	The system is currently in operation on a smaller level and not used for the roofing material. During the first two years of operation after the grant, only 15,000 tons of custom feedstock has been processed through the equipment.						
Additional Comments:	Lessons learned: “This system is very specialized, too specialized for the rubber industry and the cost of the equipment.”						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Lakin Tire West, Inc.							
Grant Number:	TR26-02-0009	Grantee Name:	Lakin Tire West, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2002-03
Primary Contact:	Randal S. Roth, Vice President	Phone Number:	(562) 802-2752	Address:	15305 Spring Street Santa Fe Springs, CA 90670		
Project Summary:	To purchase equipment in order to increase the supply of crumb rubber feedstock to crumb rubber producers.						
Proposed Annual Tire Diversion (PTE):			1 million PTEs		Grant Status:	Active	
Results							
Actual Tire Diversion (PTE):		Not applicable			Status Date:	September 1, 2004	
Final/Progress Report:	Not applicable						
Current Status:	Grantee is close to completion and will be able to meet the proposed PTE diversion requirement at the end of the grant term April 15, 2005.						
Additional Comments:	Long-term goals include continuing to provide the best services and continuing to process waste tires to higher end uses.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Lakin Tire West, Inc.							
Grant Number:	TR31-02-0002	Grantee Name:	Lakin Tire West, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2002-03
Primary Contact:	Randal S. Roth, Vice President	Phone Number:	(562) 802-2752	Address:	15305 Spring Street Santa Fe Springs, CA 90670		
Project Summary:	Purchase mobile shredding equipment in order to remediate waste tires on-site at Southern California landfills. Shredded tire material will be shipped to the Lakin facility for further processing for the production of engineered highway fill and for other projects. (Note: This project is not related to the Lakin Tire West project which received grant funding at the December Board meeting for the production of crumb rubber at its facility in Santa Fe Springs, California).						
Proposed Annual Tire Diversion (PTE):		500,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 7, 2004		
Final/Progress Report:	Not Applicable						
Current Status:	This grant has requested a change to its work plan. The change is currently being reviewed by the Grant Manager.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Recovery Technologies Group of California							
Grant Number:	TR26-02-0021	Grantee Name:	Recovery Technologies Group of California	Amount Awarded:	\$249,998	Fiscal Year:	2002–03
Primary Contact:	Delfin Rubín, General Manager	Phone Number:	(323) 268-6842	Address:	3185 E. Washington Blvd. Los Angeles, CA 90023		
Project Summary:	To improve and expand crumb rubber molding operation.						
Proposed Annual Tire Diversion (PTE):			Not applicable—withdrawn		Grant Status:	Closed	
Results							
Actual Tire Diversion (PTE):		Not applicable—withdrawn			Status Date:	June 18, 2004	
Final/Progress Report:	Not applicable—withdrawn						
Current Status:	Withdrawn						
Additional Comments:	<p>According to RTG’s Tom Reichman, the company left the state due to disparate circumstances, including higher energy costs, gasoline (diesel) costs, and workers’ compensation. From the company’s headquarters in New Jersey, Martin Sergi, President of Recovery Technologies Group, Inc., echoed Mr. Reichman. Coupled with the weak asphalt rubber market in California, Mr. Sergi said that RTG of California was finding that most of its crumb rubber was being sent out of state. “We hope to be back in the state in the future when markets improve, but could not continue under the existing circumstances,” said Mr. Sergi. “Our other tire recycling facilities throughout North America will service our customer base and continue to recycle over 40 million tires annually and manufacture 200 million pounds of crumb rubber,” Mr. Sergi added. “We have expanded our operations in a number of states because of expanding business opportunities and supportive state and local governments and environmental agencies.”</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Redwood Rubber, LLC							
Grant Number:	TR11-98-2762	Grantee Name:	Redwood Rubber, LLC	Amount Awarded:	\$80,000	Fiscal Year:	1998-99
Primary Contact:	Thomas Faust, CEO	Phone Number:	(415) 924-8140	Address:	6 Endeavor Dr Corte Madera, CA 94925-2024		
Project Summary:	Manufacture a new type of devulcanized rubber in pilot scale at its testing facility. The rubber will have tensile strength greater than 1,100 psi so that it can be reincorporated in high loadings back into products, such as new tires and molded rubber objects. More than 25 million tires will be processed and reused as new tires, roads, molded objects, and sheet rubber.						
Proposed Annual Tire Diversion (PTE):		25 million PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		750 PTEs		Status Date:	June 18, 2003 Board Hearing		
Final/Progress Report:	The final progress report indicated that additional time and finances were needed to make this project successful.						
Current Status:	Long-term goals are to build a vertically integrated waste tire recycling plant that will completely recycle five million tires a year into 100 million pounds of molded rubber products. "Our main problem is raising capital..." Grantee indicated that the tire processing equipment manufactured under the grant enabled them to process 420 pounds an hour of devulcanized rubber through the extruder, but not to a commercial scale.						
Additional Comments:	Grantee indicated the State still owes him for \$44,000 in unreimbursed costs. Short-term goals are to expand to a commercial scale. Grantee indicates, "We have proven that we can produce ultrasonic devulcanized rubber at 420 pounds an hour. This is not an economic scale. To set up commercial operations, we need a \$3.5 million grant to expand to a minimum of 4,000 pounds an hour. We will use some of the earlier grant equipment to facilitate our project."						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Rubbersidewalks, Inc.							
Grant Number:	TR21-01-5321	Grantee Name:	Rubbersidewalks, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2001–02
Primary Contact:	Lindsay Smith, CEO	Phone Number:	(310) 515-5814	Address:	2622 W. 157th St Gardena, CA 90249		
Project Summary:	<p>Rubbersidewalks, Inc. intends to recycle 250,000 rubber tires from California sources with the production and sale of 350,000 square feet of rubber sidewalks to various cities and local agencies both in California and other states. In addition, this grant includes seven aluminum molds, a 150-ton press equipped with shuttle systems and mixing systems that are required to move and load product. During the next year, Rubbersidewalks, Inc. will inform cities and local agencies with the use of videos and printed documents about the installation and maintenance of rubber sidewalks as well as the benefit of rubber sidewalks to the environment, tree care, and sidewalk maintenance and safety.</p>						
Proposed Annual Tire Diversion (PTE):		250,000		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		84,000		Status Date:	September 1, 2004		
Final/Progress Report:	<p>The grantee did not meet its proposed goal because the company found that it needed to do more research and development work. The company processed about 50,000 tires in FY 2003-04.</p>						
Current Status:	<p>They expect to process 180,000 PTEs in FY 2004–05.</p>						
Additional Comments:	<p>The company’s short-term goals would be to sell Rubbersidewalks in every state and globally. Another suggestion would be developing a handbook of knowledge. If the grant program is to encourage new people to enter the field, or convince existing industries to expand their lines, why should they reinvent the wheel every time? This is a very small industry—and much more rudimentary than the CIWMB might realize. Another suggestion is to provide industry consultants for hire—not consultants on how to “get a grant,” but on how to run a company, make product and, most importantly, sell product.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Rubbersidewalks, Inc.							
Grant Number:	TR26-02-0002	Grantee Name:	Rubbersidewalks, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2002-03
Primary Contact:	Lindsay Smith, CEO	Phone Number:	(310) 515-5814	Address:	2622 W. 157th St Gardena, CA 90249		
Project Summary:	Acquire two Integrated Press/Molding Systems and press services, in order to produce 360,000 sq ft of Rubbersidewalks pavers.						
Proposed Annual Tire Diversion (PTE):		250,000		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Grantee indicates business is doing well. The product has been changed to look like concrete, which is more pleasing to the customer. She is traveling to New York and San Francisco selling her product.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Rydean Molded Products, Inc.							
Grant Number:	TR32-03-0019	Grantee Name:	Rydean Molded Products, Inc.	Amount Awarded:	\$240,780	Fiscal Year:	2003-04
Primary Contact:	Andrew Frisque, Business Manager	Phone Number:	(951) 922-8777	Address:	435 E. Lincoln St., Unit B Banning, CA 92220		
Project Summary:	<p>Rydean Molded Products, Inc. proposes to procure additional equipment to expand current molded rubber production capacity. The company will be able to manufacture products to meet expanded demand from in- and out-of-state markets, as well as re-grind in-house scrap crumb, rejected tire rubber, and crumb rubber scrap obtained from others to reduce “scrap crumb” that would otherwise be landfilled. Rydean proposes to find the most cost-effective equipment available (new or used), which will include three ribbon mixers, a material feed system, four used presses, a 40-horsepower Parker Boiler system, four Aztec-style dump trailers, one used Nelmor grinder, a used Hydraulic Power Unit, a used end mill, a used lathe, three used JIP cranes, and a used Toyota or equivalent 10,000-pound capacity forklift. Rydean has received significant interest from purchasers of its molded rubber products, and it proposes to help divert almost 700,000 passenger tire equivalents annually of California waste tires and processed tire rubber destined to area landfills.</p>						
Proposed Annual Tire Diversion (PTE):		682,500 PTE		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	The company plans to begin the project in the next two months. They look forward to growing in their existing location and would like to see their area included in an RMDZ.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Three D Traffic Works, Inc.							
Grant Number:	TR32-03-0018	Grantee Name:	Three D Traffic Works, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Joe Dvoracek, Vice President	Phone Number:	(877) 843-9757	Address:	430 N. Varney Street Burbank, CA 91502		
Project Summary:	<p>Three D Traffic Works, Inc., has been producing recycled rubber products for highways over the past three years, including vertical panel bases, stackable cone bases, and delineator bases. This project, when completed, will allow Three D to greatly increase its product delivery to meet the overwhelming demand for its products and, with the implementation of a new quick-time system for changing tooling for different sized bases, it should increase productivity by a minimum of 20 percent. Three D Traffic Works, Inc., proposes to design and manufacture barrels and barrel bases, vertical panels and panel bases, reboundable delineators and reboundable delineator bases, and design and construct the quick-change system. This will allow the company to double its diversion of California waste tires from state landfills by approximately 375,500 passenger tire equivalents annually.</p>						
Proposed Annual Tire Diversion (PTE):			375,500 PTEs	Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Grantee has the design of one of their products completed.						
Additional Comments:	The grant makes them attractive. This makes them a one-stop shop for many rubber product shoppers.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Total Tire Recycling, LCC							
Grant Number:	TR26-02-0009	Grantee Name:	Total Tire Recycling, LCC	Amount Awarded:	\$250,000	Fiscal Year:	2002–03
Primary Contact:	Michael Byrne	Phone Number:	(530) 893-1596	Address:	Total Tire Recycling 5860A Alder Avenue Sacramento, CA 95829		
Project Summary:	Proposes to begin making TDF chips for Northern California cogeneration facilities.						
Proposed Annual Tire Diversion (PTE):			250,000	Grant Status:	Closed—never awarded		
Results							
Actual Tire Diversion (PTE):		Not Applicable		Status Date:	September 7, 2004		
Final/Progress Report:	Not applicable—grantee was awarded the grant at a CIWMB Board Meeting, but withdrew before grant was executed.						
Current Status:	Grantee closed Total Tire Recycling. Grantee started another tire recycling company in Stockton.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Tri-C Manufacturing, Inc. dba Tri-C Tire Recycling							
Grant Number:	TR37-03-0003	Grantee Name:	Tri-C Manufacturing, Inc. dba Tri-C Tire Recycling	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Mark Korte, General Manager	Phone Number:	(916) 388-2093	Address:	Tire Recycling Division 8588 Thys Court Sacramento, CA 95828		
Project Summary:	<p>Tri-C Tire Recycling, which produces crumb rubber for rubber mats and flooring, landscaping, and civil engineering projects, plans to expand its capacity with the addition of a new granulator system and screen, enhance its existing safety wall to separate equipment from storage of finished product, strengthen its mezzanine storage area, and install a concrete pad with concrete separator blocks for tire chip storage. Tri-C Tire Recycling proposes to purchase a new granulator system and screen that will allow the company to produce greater quantities of fine mesh crumb rubber, and also larger-sized rubber granules-up to 5/8ths of an inch. These will be used in civil engineering applications, such as soil erosion mitigation, and other products, such as pallets, sports fields, rubber flooring, and equestrian applications.</p>						
Proposed Annual Tire Diversion (PTEs):		600,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Strengthening infrastructure and upgrading wall. Mezzanine will be worked on in next two weeks.						
Additional Comments:	Grantee intends to stay in California. Future plans are to obtain additional grants if markets warrant. The company hopes CalTrans will use more rubberized asphalt in the highways, but they are not waiting around for them to do so. Has learned from this in the past. The company's long-term goal is to keep expanding.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: U.S. Rubber Recycling, Inc.							
Grant Number:	TR15-99-3202	Grantee Name:	U.S. Rubber Recycling, Inc.	Amount Awarded:	\$100,000	Fiscal Year:	1999–2000
Primary Contact:	Richard L. Snyder, President/CEO	Phone Number:	(909) 342-0177	Address:	2225 Via Cerro, Unit B Riverside, CA 92509		
Project Summary:	<p>Mr. Snyder’s grant was for the purchase of manufacturing equipment to capitalize on an existing market for “continuous run” resilient surfacing. Based on his market research, and industry experience and expertise, he forecast the first year’s sales of 2,100,000 square feet. Each square foot of crumb rubber weighs 1.525 pounds, which brings the total of the first year’s sales to 3,202,500 pounds of crumb rubber. Considering one passenger tire recycled produces 12 pounds of usable crumb rubber, the estimated tire usage for the first year’s sales is estimated at 266,875 recycled tires.</p>						
Proposed Annual Tire Diversion (PTE):		266,875		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		First year 200,000 PTEs		Status Date:	September 1, 2004		
Final/Progress Report:	U.S. Rubber estimated that rubber consumption would be well over one million PTEs per year once the product becomes established on a national basis.						
Current Status:	U.S. Rubber now processes 1.5 million PTEs annually and is still using all equipment purchased with grant funds						
Additional Comments:	<p>Short-term goals for the company include capitalizing on several different markets and refining our manufacturing process. Grantee also wants to become the dominant maker of rubber products on the west coast. Some lessons learned include: “We found that it is hard to anticipate everything you need when developing a grant proposal. In addition, products come up, new technologies are developed, and a manufacturer must be willing and able to make changes quickly.” Their business doubled in 2004.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: U.S. Rubber Recycling, Inc.							
Grant Number:	TR21-01-5318	Grantee Name:	U.S. Rubber Recycling, Inc.	Amount Awarded:	\$250,000	Fiscal Year:	2001-02
Primary Contact:	Richard L. Snyder, President/CEO	Phone Number:	(909) 342-0177	Address:	2225 Via Cerro, Unit B Riverside, CA 92509		
Project Summary:	<p>U.S. Rubber Recycling, Inc. proposes to expand upgrade both the continuous roll and tile areas of its molded recycled rubber products capability. Both areas have demonstrated outstanding market potential. The continuous roll has tremendous potential at the commercial flooring level and the tile has an excellent opportunity at the retail level in major home improvement centers. The company has also developed several projects outside the scope of the traditional flooring applications that also have considerable potential to utilize large quantities of California-derived crumb rubber. In consideration of these factors, we believe that there is a critical need to upgrade and expand.</p>						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		400,000		Status Date:	September 1, 2004		
Final/Progress Report:	<p>The project was to expand the facility to enable the manufacturing of continuous roll rubber sheets made from recycled California tire rubber. All of the major equipment necessary for the project has been received and accounted for and is in satisfactory working order. The company was immediately successful in placing the product with the customers it anticipated. The PTE usage for year one was approximately 300,000 and is expected to double in year two and beyond.</p>						
Current Status:	<p>The equipment purchased with grant funds is still in production. Business doubled in 2004.</p>						
Additional Comments:	<p>Short-term goals for the company include capitalizing on several different markets and refining our manufacturing process. We also want to become the dominant maker of rubber products on the west coast. Some lessons learned include: We found that it is hard to anticipate everything you need when developing a grant proposal. In addition, products come up, new technologies are developed, and a manufacturer must be willing and able to make changes quickly.</p>						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: US Century, LLC							
Grant Number:	TR11-98-2755	Grantee Name:	US Century, LLC	Amount Awarded:	\$80,000	Fiscal Year:	1998-99
Primary Contact:	Terry Colip, Partner	Phone Number:	(303) 689-9693	Address:	Financial Operations 5701 S Cherry Cir Littleton, CO 80121		
Project Summary:	Purchase equipment for its Colton tire processing facility to process up to 5.5 million waste tires into FlexShake roofing shingles, playground fill, and crumb rubber.						
Proposed Annual Tire Diversion (PTEs):		5.5 million PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTEs):		20 million?		Status Date:	March 30, 2004		
Final/Progress Report:	Grantee never submitted a final report. An audit was requested and Department of Finance (DOF) completed a phone audit. DOF was able to find an employee of the company that indicated 20 million PTEs were used during the term of the grant. The major California supplier of the crumb rubber to this company disputes this claim. Audit findings included inadequate recordkeeping and lack of a final report. Grantee is no longer in business.						
Current Status:	Closed						
Additional Comments:	This grant did have some success; however, it is currently out of business. Grantee was paid \$76,537.54.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Van-Duerr Industries							
Grant Number:	TR26-02-0018	Grantee Name:	Van-Duerr Industries	Amount Awarded:	\$230,000	Fiscal Year:	2002-03
Primary Contact:	Timothy Vander Heiden, President	Phone Number:	(530) 893-1596	Address:	Van Duerr Industries 820 W 7th St. Chico, CA 95928-5334		
Project Summary:	To purchase equipment to produce Americans with Disabilities Act-compliant products from waste tires.						
Proposed Annual Tire Diversion (PTE):			250,000	Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 7, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Grantee indicates his press is up and running. However, after a site visit by Board staff this was found to be incorrect. The press does not have a mold and the grant is not expected to meet the terms of the grant by the end of the grant term. Grantee is very excited about recent contact with the Office of State Architect and possible purchases with school districts in California. Grantee expects to meet his goals by the end of the grant term in April 2005.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Waste Recovery West, Inc.							
Grant Number:	TR15-99-3207	Grantee Name:	Waste Recovery West, Inc.	Amount Awarded:	\$100,000	Fiscal Year:	1999–2000
Primary Contact:	Mark W. Hope, President	Phone Number:	(916) 395-5541	Address:	372 Florin Rd #276 Sacramento, CA 95831		
Project Summary:	WRW will purchase, construct and install a tire shred size reduction system as a supplement to their current Livermore process site. Construction and installation will be complete by May 1, 2000. Civil engineering shred sizes produced on the system will begin to be provided to specific project sites on May 1 to beneficial use as operations layer, gas well backfill aggregate, and lightweight fill for an embankment project. During the term of this project, it is estimated that well over 1 million tires will be recovered for civil engineering applications.						
Proposed Annual Tire Diversion (PTE):		1 million PTEs		Grant Status:	Closed		
Results							
Actual Tire Diversion (PTE):		3.5 million PTEs during grant		Status Date:	September 1, 2004		
Final/Progress Report:	Waste Recovery West indicated their project was successful according to development plans and the project produced a marketable civil engineering material. They believe their project was able to establish a long-term beneficial use for waste tires and civil engineering material.						
Current Status:	The grantee still uses equipment purchased through the grant for various civil engineering projects. Up to 1.5 to 1.75 million PTEs per year are used for civil engineering projects. They have worked on smaller civil engineering projects; however, nothing to the scale of the Dixon Landing Project.						
Additional Comments:	They are concerned with the Workers Compensation costs in California. Yet, they intend to stay in California. They have been able to absorb business from companies that have gone out of business in California.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Waste Tire Products							
Grant Number:	TR21-03-5324	Grantee Name:	Waste Tire Products	Amount Awarded:	\$184,389	Fiscal Year:	2001-02
Primary Contact:	William Tasto, Owner	Phone Number:	(530) 510-5309	Address:	P.O. Box 4563 Orland, CA 95963		
Project Summary:	Waste Tire Products will purchase and install molds to produce Americans with Disabilities Act-compliance ramp products from value-added crumb rubber made from recycled tires. Additionally, the production of these products will require re-tooling two existing presses. All production will be performed in Glenn County, California. The duration of the project will be one year.						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Withdrawn before grant award		
Results							
Actual Tire Diversion (PTE):		Not Applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not Applicable						
Current Status:	Grantee was awarded the grant during a CIWMB Board Meeting. Before the grant was executed, the grantee withdrew, since the company was not ready to proceed. Moreover, they took the option of waiting until a future grant program was offered even though they were not guaranteed to be awarded a grant.						
Additional Comments:	Grantee was awarded a grant during the FY 2003-04 grant cycle for \$250,000.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: Waste Tire Products							
Grant Number:	TR32-03-0003	Grantee Name:	Waste Tire Products	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	William Tasto, Owner	Phone Number:	(530) 510-5309	Address:	P.O. Box 4563 Orland, CA 95963		
Project Summary:	<p>Waste Tire Products of Orland, California, will process annually a minimum of 250,000 per tire equivalency (PTE) California waste tires by producing molded paving products from diverted waste tires. The product to be produced will be a waste tire paving tile manufactured from June 1, 2004 to March 31, 2006. The reason for the project is: 1) to divert rural California waste tires from landfill disposal; 2) to ensure financial viability of rural county tire diversion by adding value to waste tires currently collected by Waste Tire Products; 3) to produce and promote recycled-content tire products while creating jobs; and 4) provide a positive return on investment to the California Integrated Waste Management Board (>250,000 PTE annually processed) and Waste Tire Products (25 percent profit margin on commercialized California waste tires will maintain collection infrastructure).</p>						
Proposed Annual Tire Diversion (PTE):			250,000 PTE	Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	The first piece of equipment is just being installed.						
Additional Comments:							

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: West Coast Rubber Recycling, LLC							
Grant Number:	TR26-02-0011	Grantee Name:	West Coast Rubber Recycling, LLC	Amount Awarded:	\$234,801	Fiscal Year:	2002-03
Primary Contact:	Gary G. Kerr, Manager	Phone Number:	(408) 842-2401	Address:	105 Leavesley Rd, Bldg., #7B Gilroy, CA 95020		
Project Summary:	The company will purchase equipment to expand its operation.						
Proposed Annual Tire Diversion (PTE):		250,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTEs):		Not Applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	Grantee indicates that they looking to move from the building that they lease so they can purchase one in an RMDZ Zone. The press system from the grant has been a great asset, since it has broadened our markets and customer base. As our understanding of our customers' needs develop, we are able to refine the products that we manufacture, thereby continuing to broaden uses for molded rubber.						
Additional Comments:	Aside from purchasing the building, we look to continue to increase our landfill diversion, develop more products, utilize the machinery that CIWMB has helped us acquire, and justify the commitment that has been made to us by CIWMB. Some of the lessons learned included: In a cost saving measure, we have purchased used equipment. We bought used because we want to not only sell recycled products, but also to purchase recycled. We are initially able to save money, but with down time and increased maintenance costs, we have not come out ahead. We have also found in products that we produce that what works today might not work tomorrow, and what sells today still might be on your shelves a year from now.						

WASTE TIRE COMMERCIALIZATION GRANT PROGRAM ABSTRACTS

Grantee Information: West Coast Rubber Recycling, LLC							
Grant Number:	TR32-03-0012	Grantee Name:	West Coast Rubber Recycling, LLC	Amount Awarded:	\$250,000	Fiscal Year:	2003-04
Primary Contact:	Gary G. Kerr, Manager	Phone Number:	(408) 842-2401	Address:	105 Leavesley Rd, Bldg., #7B Gilroy, CA 95020		
Project Summary:	<p>West Coast Rubber Recycling (WCRR) is a full tire product commercialization plant manufacturing five molded rubber products and five crumb and buffing rubber products. WCRR is proposing to install an advanced automated recycling system to increase its molded and crumb rubber production capacity by approximately 40 percent, or an additional 3 million pounds annually. The purchase, installation, equipment modifications, and staff cross-training of the proposed system will be completed within four months of the receipt of notice to proceed from CIWMB. Once fully operational, the implementation of the advanced automated recycling system will allow WCRR to divert 408,000 PTEs annually.</p>						
Proposed Annual Tire Diversion (PTEs):		408,000 PTEs		Grant Status:	Active		
Results							
Actual Tire Diversion (PTE):		Not applicable		Status Date:	September 1, 2004		
Final/Progress Report:	Not applicable						
Current Status:	We have received the first piece of equipment and have wired and tested that it runs. The colorizer conveyor is almost complete and we are looking forward to running it daily, as we have a 24-ton order waiting to color.						
Additional Comments:							