

**Staff's Proposed Revisions to
the Five-Year Plan for the
Waste Tire Recycling
Program**

(Covering Fiscal Years 2003/04-2007/08)

January 30, 2003

Revision to the Five-Year Plan

In September 2001 the *Five-Year Plan for Waste Tire Recycling Management Program (Fiscal Years 01/02-05/06)* was adopted by the Integrated Waste Management Board (IWMB) and submitted to the Legislature. Senate Bill 876 provides for a revision to the plan every two years. In preparing for the revision, staff presented an update of the Waste Tire Management Program to the Special Waste and Market Development Committee (Committee) in August 2002. The Committee directed staff to conduct workshops to obtain public input and industry comments.

The Committee conducted three workshops in October 2002 to provide stakeholders and interested parties the opportunity to comment on the plan. Staff presented a summary of the comments to the Committee in November 2002. The Committee directed staff to organize a workshop in January 2003 for staff, stakeholders, interested parties and the Committee to come together to develop the revised five-year plan.

Staff anticipates a draft copy of the revised five-year plan will be available in early April 2003. The final version of the revised five-year plan will be presented to the Committee and Board in May 2003 and then submitted to the Legislature by July 2003.

Enforcement and Regulations Relating to the Storage of Waste and Used Tires

Proposed Five-Year Budget for Enforcement and Regulations Relating to the Storage of Waste and Used Tires

Program Activities

Staff proposes: no additions or deletions

Revised Table 1: Budget for Enforcement and Regulations Relating to the Storage of Waste and Used Tires

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Enhanced Enforcement Staff	\$1,680,000 (\$1,664,000)	\$1,680,000 (\$1,664,000)	\$1,680,000 (\$1,664,000)	\$1,680,000	\$1,680,000
CHP	\$ 0	\$200,000	\$ 0	\$ 0	\$ 0
LEA Enforcement Jurisdiction Grants	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000	\$6,000,000
Totals	\$7,680,000	\$7,880,000	\$7,680,000	\$7,680,000	\$7,680,000

Proposed Changes to Performance Measures:

1. Increase the number of inspections conducted by program staff by 20 percent per year through 2006.
Change “by program staff by 20%” to “by program staff and LEA staff”
5. Gradually reduce the number of newly discovered illegal sites (through CHP surveillance or local enforcement) on an annual basis.
Change wording to: Track number of newly discovered illegal sites to determine if occurrence is decreasing through CHP surveillance or local enforcement) on an annual basis.
6. Increase the number of applicants participating in local government enforcement grant program.
Change the word “applicants participating” to “applications submitted”.
7. Increase the number of local government entities delegated enforcement authority.
Propose eliminating this measure as staff will be retaining enforcement authority at the Board with LEA performing surveillance and inspection duties.

Cleanup, Abatement, or Other Remedial Action Related to Tire Stockpiles Throughout the State

Proposed Five-Year Budget for Cleanup, Abatement and Remedial Action

Program Activities

Staff proposes:

- ❑ Adding funds in fiscal years 04/05 and 07/08 for a contract with the Office of State Fire Marshall to update the tire fire curriculum and provide training.
- ❑ Increasing the funding for the Tracy tire-fire site remediation in fiscal years 04/05 and 05/06 to cover possible groundwater contamination.
- ❑ Decreasing the funding for short-term remediation to reflect decrease in illegal piles.
- ❑ Decreasing the rate of increase for funding for local government clean-up grants to reflect slow growth in applications.
- ❑ Decreasing the rate of increase for funding for local government amnesty grants based on past participation.

Revised Table 7: Budget for Cleanup, Abatement, and Waste Tire Remediation

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Remediation Staff	\$ 565,000 (\$ 686,000)	\$ 565,000 (\$ 686,000)	\$ 565,000 (\$ 686,000)	\$ 565,000	\$ 565,000
Long-Term Remediation Projects	\$4,000,000	\$2,700,000 (\$2,000,000)	\$2,700,000 (\$2,000,000)	\$ 1,000,000	\$ 0
Short-Term Remediation Projects	\$1,200,00 (\$1,500,000)	\$1,500,000 (\$2,500,000)	\$1,500,000 (\$2,700,000)	\$1,352,000	\$352,000
Local Government Waste Tire Cleanup Grant	\$ 800,000 (\$1,200,000)	\$1,000,000 (\$1,500,000)	\$1,000,000 (\$1,750,000)	\$1,500,000	\$1,500,000
Local Government Amnesty Day Grants	\$ 400,000 (\$ 500,000)	\$ 500,000 (\$750,000)	\$750,000	\$750,000	\$750,000
Emergency Reserve Account	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Farm & Ranch Solid Waste Cleanup and Abatement Grants**	(\$ 333,000)	(\$ 333,000)	(\$ 333,000)	(\$ 333,000)	(\$ 333,000)
OSFM Training	\$ 0	\$100,000 (TBD)	\$ 0	\$ 0	\$100,000
Totals	\$8,298,000	\$7,598,000	\$7,848,000	\$6,500,000	\$4,600,000

** Transfer to Farm and Ranch Solid Waste Cleanup and Abatement Grant Program outside of expenditure authority. Included in totals as part of \$6,500,000 requirement.

Blue font denotes new activity or increased funding. Red font denotes deleted or decreased funding.

Revised Table 6 Short -Term Remediation Projects by Fiscal Year

WTS* Project (County in parentheses)	No. of Tires	FY 01/02	FY 02/03	FY 03/04	FY 04/05	FY 05/06	Site Status
Clark Road (Butte)	30,000	\$131,700 0					O/O remediation
Sunrise Traders (Napa)	8,000	\$16,320 0					O/O remediation
Salacchi (Sonoma)	300,000	\$810,000		\$810,000			Pending
Hale (Sonoma)	350,000	\$545,000	\$400,000	\$945,000			Pending
Marrone (San Bernardino)	2,000		\$4,500			\$4,500	Pending, no official referral
Manasero (San Bernardino)	2,000		\$4,500			\$4,500	Pending, no official referral
Gribble (San Bernardino)	1,500		\$3,375			\$3,375	Pending, no official referral
Nash Hill (San Bern.)	10,000		\$22,500			\$22,500	Pending
Dietz (San Bernardino)	4,000		\$9,000			\$9,000	Pending, no official referral
Valle Vista Road (San Bernardino)	2,000		\$4,500			\$4,500	Pending, no official referral

WTS* Project (County in parentheses)	No. of Tires	FY 01/02	FY 02/03	FY 03/04	FY 04/05	FY 05/06	Site Status
Sears Point (Sonoma)	20,000		\$56,000			\$56,000	Pending
Bebe Ranch (Sonoma)	800,000		\$1,000,000	\$1,255,200	\$1,600,000	0	Pending
Lakeville Road [Algrim] (Sonoma)	100,000			\$270,000		\$270,000	Pending
Hamner (Los Angeles)	20,000			\$40,800	\$40,800		Board Approved pursuing site access
James (Los Angeles)	7,000		\$15,200		\$15,200		Board Managed Remediation
Fitzsimmons (Kern)	7,500			\$15,300	\$15,300		Board Approved pursuing site access
America Hill (Nevada)	7,500			\$ 15,300	\$ 15,300		Board Approved pursuing site access
Garnet - Vinocur (Riverside)	150,000		\$262,000		\$260,000		Board Managed Remediation
Old Adobe Rd [Flochinni] (Sonoma)	11,000			\$41,250	\$41,250		Pending
Speers (Tulare)	10,000			\$ 22,500			Board Approved pursuing site access
Earlimart (Tulare)	20,000			\$ 27,000			Board Approved pursuing site access
Tulare Auto Wreckers (Tulare)	5,000	0			\$ 11,250		O/O Remediation
Future Remediation Sites					TBD	TBD	
Altamont Pass Road (Alameda)	6200	0			\$ 12,000		O/O Remediation
Chuck's Auto Parts (Ventura)	15,000		\$30,000				Board Approved pursuing site access
Wilson Bebee (Sonoma)	40,000			\$80,000			Pending
Valley Ford (Sonoma)	30,000					\$60,000	Pending
Gabrielson (Fresno)	600	0			\$ 3,000		O/O Remediation

WTS* Project (County in parentheses)	No. of Tires	FY 01/02	FY 02/03	FY 03/04	FY 04/05	FY 05/06	Site Status
Raymond Road (Madera)	500	0			\$ 3,000		O/O Remediation
Island Dairy (Stanislaus)	38,000	0			\$ 75,000		O/O Remediation
Totals in Millions	1.754 1.660	\$1.503 0	\$1.504 \$0.308	\$ 1.525 \$1.187	\$ 2.500 \$ 1.600	\$2.450 \$0.434	

* WTS = Waste Tire Site Site not listed on original 5 year plan

No proposed changes to performance measures.

Research Directed at Promoting and Developing Alternatives to the Landfill Disposal of Tires

Proposed Five-Year Budget for Research Directed at Promoting and Developing Alternatives to the Landfill Disposal of Tires

Program Activities

Staff proposes:

- Adding a one-time activity in FY 03/04 to study the number of tires generated in California. Currently, the CIWMB conducts an annual survey of the tire industry to study the movement of waste tires. This contract concept would determine the simplest method to obtain the data, verify the accuracy of the data previously obtained by staff, and examine the BOE collection numbers against the data to determine if the fees are being collected on all tire sales. This new activity supports Goal 4 of the Board's Strategic Plan.
- Adding an activity of \$250,000 in FY 04/05 to study the chemical effects of rubberized mats and other recreational surfaces. There is increased questioning of the possible harmful effects of the tire rubber used in playground mats or other recreational surfacing. A study should be developed to assess the risk and analyze health affects on users of crumb rubber used for playground surfaces. This activity supports Goal 2 - Objective 2 of the Board's Strategic Plan.
- Adding an activity of \$ 500,000 in FY 05/06 to fund a study of the water quality effects from the use of tire chips in civil engineering projects. This activity supports Goal 3 – Objective 2 of the Board's Strategic Plan.
- Adding an activity of \$100,000 in FY 04/05 to update the 1992 report *Tires as Fuel Supplement Feasibility Study*. Staff proposes to update this report, which was mandated by AB 184, to include new test data and environmental impact analyses³. The report examined the feasibility of using waste tires as a fuel supplement for cement kilns, lumber operations, and other industrial processes.
- Adding an activity of \$350,000 in FY 03/04, increasing to \$530,000 in FY 04/05 for the Department of Health Services and the Mosquito and Vector Control Association of California to fund mosquito abatement and research activities pertaining to the spread of the West Nile virus. Supports Goal 3 – Objective 2 of the Board's Strategic Plan.
- Shifting staffing resources from research to markets in fiscal years 06/07 and 07/08.
- Delete funding for the activity Increase Recycled Content In New Tires in FY 04/05. If research efforts are productive, funding should be added to market development element.
- Shift funding in FY 03/04 for the activity Update Report on Pyrolysis, Gasification, and Liquefaction to the activity Energy Recovery from Tires. Staff proposes combining these activities to conserve staff resources.

- Add funding in FY 04/05 for the activity Devulcanization Technology. Results of the FY 02/03 effort are not anticipated until late 03/04.
- Add funding in FY 05/06 for the activity Use of Fiber and Steel from Crumb. These funds would be used for a pilot demonstration project based on FY 02/03 report results due in 03/04.
- Add funding in FY 05/06 for the activity RAC study. These funds would be used for a follow-up study to CalTrans' FY 01/02 RAC "receipe" comparison study to exam performance.
- Add funding in fiscal years 03/04 and 04/05 for a new activity with a state university to examine the costs of the different diversion techniques for waste tires.

Revised Table 8: Research Budget

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Research Staff	\$ 498,000 (\$ 374,000)	\$ 498,000 (\$ 374,000)	\$ 498,000 (\$ 374,000)	\$ 249,000	\$ 249,000
Tire Combustion Toxicity Report*					
Increased Recycled Content in New Tires	\$ 0 (\$ 100,000)	\$ 0 (\$50,000)	\$ 0	\$ 0	\$ 0
Update Report on Pyrolysis, Gasification, and Liquefaction *	\$ 0 (\$500,000)				
Energy Recovery from Tires	\$ 800,000 (\$500,000)	\$ 0	\$ 0	\$ 500,000	\$ 0
Devulcanization Technology*	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Civil Engineering Uses for Tires	\$1,000,000 (\$1,500,000)	\$500,000	\$250,000	\$ 0	\$ 0
Increasing Tire Lifespan*					
Use of Fiber and Steel from Crumb Rubber	\$ 0	\$ 0	\$ 250,000 (\$ 0)	\$ 0	\$ 0
Recycled RAC					
RAC Study	\$ 0	\$ 0	\$ 100,000 (\$ 0)	\$ 0	\$ 0
Updated Report: Tires as Fuel Supplement:	\$ 0	\$ 100,000		\$ 0	\$ 0

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Feasibility Study*					
Study on the number of tires generated*	\$100,000	\$ 0	\$ 0	\$ 0	\$ 0
Study the Chemical effects of rubberized mats and other recreational surfaces*	\$ 0	\$250,000	\$ 0	\$ 0	\$ 0
Water quality and tire chips into civil engineering projects*	\$ 0	\$ 0	\$ 500,000	\$ 0	\$ 0
Cost Comparison of Waste Tire Diversion Techniques	\$50,000	\$50,000			
DHS/MVCAC Mosquito Control & Research	\$350,000	\$ 530,000	\$ 150,000	\$150,000	\$ 0
Totals	\$2,798,000	\$1,928,000	\$1,748,000	\$899,000	\$249,000

* Denotes activities that are a one-time effort.

Blue font denotes new activity or increased funding. Red font denotes deleted or decreased funding.

Proposed changes to performance measurements:

- Increase the number of grants and contracts awarded to promote civil engineering applications of waste tires.
Propose changing the words “grants and contracts” to “projects”.

Market Development and New Technology Activities for Waste and Used Tires

Proposed Five-Year Budget for Market Development and New Technology Activities

Program Activities

Staff proposes:

- Increasing the funding for the CalMax and WRAP programs to \$33,000 per fiscal year.
- Increasing the funding for the Buy Recycled Conference to \$75,000 per fiscal year.
- Adding a new activity of \$100,000 in fiscal years 03/04 and 04/05 called Tires Database-Umbrella System to develop a unified database system that would be available to all Board staff. Currently staff must access several databases for tire related information. This activity could be completed in-house or under a contract through our Information Management Branch. This new activity supports Goal 4 – Objective 5 and Goal 5 – Objective 3 & 4 of the Board’s Strategic Plan.
- Amending the activity on public education to consolidate all public education efforts from the Special Waste Division into one campaign. This activity would combine the Public Services Announcement and public awareness surveys activities with social marketing efforts. This new activity supports Goal 3 – Objective 3 & 4 of the Board’s Strategic Plan.
- Increase funding in FY 05/06 for activity Tire Care Brochure or Utility Bill Insert and Public Awareness Survey.
- Adding a new activity to fund State Agency Buy Recycled Certification Audits (SABRC). Proposed Contract Concept for \$50,000 from the Tire Fund to conduct audits of State Agencies that have large fleets. The contract would be managed by the Waste Prevention and Market Development Division. The State Controller’s Office would audit state agencies that have fleets to verify the level of use of tire-derived products and retreaded tires that are reported on annual SABRC reports. This new activity supports Goal 2 - Objective 2 of the Board’s Strategic Plan.
- Deleting the activity to provide funding to CalTrans for RAC signage and instead include as a requirement in all future agreements.
- Changing the activity “Green Building” to “Sustainable Building”. In addition, adding after the word “grant” to “and contracts”. And adding after the word “building product” to “and design”.
- Adding an activity to implement the Kuehl Bill (RAC Grants) as a pilot in the amount of \$1 million dollars in FY 04/05 and \$1.3 million in fiscal years 06/07 and 07/08. In addition \$20,000 would be added in FY 03/04 for outreach for the new program.
- Adding an activity for the purchasing and development of tire-derived products by State Agencies. Funding of the development, manufacture, or purchasing of waste tire products

by State of California agencies (weed abatement pads, roofing materials, insulation, etc.) Staff proposes to substitute this new activity - available to all State Agencies – for the existing Capital Improvements State Parks activity. This new activity supports Goal 2 - Objective 2 of the Board’s Strategic Plan.

- Delete funding for the activity Civil Engineering Uses (Grant Program) in FY 03/04 to allow research projects time to be evaluated. In addition, decrease funding in FY 04/05 and 05/06.
- Do not fund the activity Playground Cover (grant program) in fiscal years 06/07 and 07/08.
- Increase funding for the activity Track and Other Recreational Surfaces in fiscal years 04/05 and 05/06. In addition, do not fund the activity in FY 07/08.
- Add \$180,000 in fiscal years 6/07 and 07/08 to shift staff resources to Market Development from the Research element.
- Increase the activity RACTC in fiscal years 04/05 and 05/06.

Table 11: Budget for Market Development and New Technology Activities

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Market Development Staff	\$ 404,000 (\$ 216,000)	\$ 404,000 (\$ 216,000)	\$ 404,000 (\$ 216,000)	\$ 653,000	\$ 653,000
Tire Recycling Conferences	\$ 100,000	\$ 0	\$ 100,000	\$ 0	\$ 125,000
Tire Care Brochure or Utility Bill Insert and Public Awareness Survey	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Public Service Announcements	\$ 250,000	\$ 300,000	\$ 300,000	\$ 200,000	\$ 200,000
Civil Engineering Uses	\$ 0	\$ 500,000	\$1,000,000	\$1,000,000	\$1,000,000
Playground Cover	\$ 800,000	\$ 800,000	\$ 800,000	\$ 0	\$ 0
Track and Other Recreational Surfaces	\$1,000,000	\$1,200,000	\$1,200,000	\$1,000,000	\$ 0
Product Commercialization Grants	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
Sustainable Building	\$ 400,000 (\$ 500,000)	\$ 500,000	\$ 500,000	\$ 500,000	\$ 500,000
RACTC	\$ 500,000	\$ 600,000	\$ 600,000	\$ 600,000	\$ 600,000
Signs for Caltrans RAC Projects	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
RMDZ Loan	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000	\$2,000,000
State Agency Purchases and Development	\$400,000	\$400,000	\$ 200,000	\$ 200,000	\$ 200,000

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Buy Recycled Conference	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000
CalMAX and WRAP	\$ 33,000	\$ 33,000	\$ 33,000	\$ 33,000	\$ 33,000
Rebate Study*	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0
Tires Database	\$ 100,000	\$ 150,000	\$ 0	\$ 0	\$ 0
Buy Recycled Certification Audits	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000
RAC Grants	\$ 20,000	\$1,000,000	\$1,300,000	\$1,600,000	\$ 0
Totals	\$8,132,000	\$10,012,000	\$10,562,000	\$10,021,000	\$7,436,000

* Denotes activities that are a one-time effort.

Blue font denotes new activity or increased funding. Red font denotes deleted or decreased funding.

Proposed adding the following performance measures:

- **CalMax:** Increase the advertisement of tire products listed in the CalMax publication by conducting additional outreach.
- **WRAP:** Increase the number of successful applicants receiving awards from waste tire companies.
- **Trade Show:** Increase the number and variety of vendors that display waste tire products at the trade show.
- **Sustainable Buildings:** Increase the use of waste tire products in green building that are purchased and installed without CIWMB funding.
- **RMDZ Loans:** Increase the amount of successful waste tire businesses that receive loans.
- **Buy Recycled Certification Audits:** Increase by 10% the amount of tire-derived products purchased by public agencies.

Staff proposed to change:

4. After the word “public agencies” add “and Indian Tribes”
7. There is a word missing at the end of the sentence. Add the word “step” at the end of the sentence.

The Waste and Used Tire Hauler Program and Manifest System

Proposed Five-Year Budget for the Waste and Used Tire Hauler Program and Manifest System

Staff proposes:

- Decrease the dollar amounts in fiscal years 06/07 and 07/08 for the Hauler Program & Manifesting.

Revised Table 12: Waste and Used Tire Hauler Program and Manifest System Budget

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08
Hauler/Manifest Staff	\$ 498,000 (\$ 490,000)	\$ 498,000 (\$ 490,000)	\$ 498,000 (\$ 490,000)	\$ 498,000	\$ 498,000
CHP	\$ 400,000	\$ 400,000	\$ 400,000	\$ 300,000	\$ 300,000
Hauler Program & Manifesting	\$1,110,000	\$1,110,000	\$1,110,000	\$800,000	\$800,000
Totals	\$2,008,000	\$2,008,000	\$2,008,000	\$1,598,000	\$1,598,000

Proposed changes to the performance measurements:

1. Percent of generators identified and contacted by program staff by March-June 2002.

Due to delays in the manifest development phase, this timeline needs to be re-adjusted to March-June 2003. In addition, in the first sentence under the heading Performance Measure reads “Baseline data will be collected during FY 01/02.” This should read “baseline data will be collected during calendar year 2004.”

**Total Waste Tire Management Proposed Funding for FYs 2003/04-2007/08
(in thousands)**

Program Area	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	Totals for All FYs
Enforcement	\$7,680	\$7,880	\$7,680	\$7,680	\$7,680	\$38,600
Cleanup	\$8,298	\$7,598	\$7,848	\$6,500	\$4,600	\$34,844
Research	\$2,798	\$1,928	\$1,748	\$899	\$249	\$7,622
Markets	\$8,132	\$10,012	\$10,562	\$10,021	\$7,436	\$46,163
Hauler and Manifest	\$2,008	\$2,008	\$2,008	\$1,598	\$1,598	\$9,220
Mandatory Contracts (BOE)	\$1,384	\$1,384	\$1,384	\$1,384	\$1,384	\$6,920
Administration	\$1,500	\$1,500	\$1,500	\$1,500	\$1,500	\$7,500
Farm & Ranch	-\$333	-\$333	-\$333	-\$333	-\$333	-\$1,665
Totals	\$31,467	\$31,977	\$32,397	\$29,249	\$24,114	\$149,204

Tire program staff estimate of future expenditure authority and revenues

	FY 03/04	FY 04/05	FY 05/06	FY 06/07	FY 07/08	Totals for All FYs
Spending Authority	\$31,700,000	\$32,500,000	\$32,800,000	\$32,800,000	\$32,800,000	\$162,600,000
Revenue	\$31,300,000	\$31,700,000	\$31,700,000	\$28,300,000	\$24,200,000	\$147,200,000

General Changes

On page 3, item 6 of the plan there is a typo that needs to be fixed. PRC Section 42889(c) should read PRC Section 42889(d).