

Waste Tire Annual Report
A.R.S. §44-1306

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The Waste Tire Program , which ensures the proper disposal of waste tires, is funded by a waste tire fee that is imposed on the sale of each new tire or motor vehicle. Retail tire dealers collect a fee of 2 percent of the purchase price for each tire, with a maximum fee of \$2 per tire. When a new motor vehicle is purchased and the tire cost is not listed separately, a fee of not more than \$1 per tire is collected. The fees are collected by the tire retailer or motor vehicle dealer and remitted to the Arizona Department of Revenue quarterly for placement into the waste tire fund. The Arizona Department of Revenue distributes the monies in the fund to the Arizona Department of Environmental Quality (ADEQ) and the counties quarterly. ADEQ receives 3.5 percent of the monies in the waste tire fund, and the remainder is distributed to each county in proportion to the number of motor vehicles registered in that county.

Retail tire dealers must accept waste tires from customers for each sale of a new motor vehicle tire. If the following two conditions are met, retail tire dealers may dispose of the waste tire free at a county waste tire collection site.

1. The tire dealer must manifest the waste tire to the waste tire collection site
2. The waste tire must be a trade-in on a new tire for which the waste tire fee was paid

Each county must establish at least one waste tire collection site within the county for retail tire dealers and residents to dispose waste tires. The counties are also responsible for ensuring that the tires are properly disposed and each individual county determines its own best methods of collection and disposal.

ADEQ routinely inspects waste tire collection sites and other tire storage sites for compliance with the statutory storage requirements and investigates illegal dumping complaints. When ADEQ staff finds a violation of the storage requirements, ADEQ issues a notice of opportunity to correct or a notice of violation, depending on the severity of the violation, which tells the site owner or operator how to correct the violation. In FY 2001, the Solid Waste Section did not issue any notices of violation or administrative orders to waste tire storage sites for various violations of the waste tire requirements.

For this program, waste tires are categorized into three groups:

1. Passenger and light truck tires
2. Semi-truck tires
3. Off-road motor vehicle tires

Passenger and light truck motor vehicle tires are those used on automobiles, motorcycles, light trucks and trailers. Semi-truck motor vehicle tires include semitrailer, truck tractor and semitrailer combination and other similar motor vehicles that are driven on the state's highways. Off-road motor vehicle tires are those used on farm vehicles, airplanes, mining vehicles and other types of motor vehicles that are not operated on the state's highways. While the waste tire fee is paid only on the sale of passenger, light truck and semi-truck motor vehicle tires, waste tires from all three groups are subject to the statutory disposal prohibitions and storage requirements. Table 1 summarizes the types of tires collected by each county.

The statute contains a provision to clean up tire fire sites. This provision allows ADEQ to request 5 percent, not to exceed \$250,000, of the waste tire fund on a quarterly basis, before the funds are distributed to the counties. The statute allows ADEQ to award the tire fire clean up funds if no other funds are available and ADEQ has drafted a position paper outlining the criteria that must be submitted with a request for tire fire cleanup funds and to make the demonstration that no other funds are available.

The Arizona Department of Revenue reported the following figures for the FY 2001 Waste Tire Fund. The fund received \$6,346,629 on the sale of approximately 5,665,453 new motor vehicle tires. This was a 1.26 percent increase from FY 2000. ADEQ received 3.5 percent, which was \$222,132.01. The remaining \$6,124,496.97 in the waste tire fund was distributed to the counties, as depicted in Table 2.

In FY 2001, more than 4.1 million waste tires entered the counties' waste tire management programs and more than 4 million waste tires were disposed of, leaving just over 1.1 million waste tires total in all of the county waste tire collection sites as of June 30, 2001. The previous year the counties reported less than 1 million waste tires remaining in their waste tire collection sites at the end of the fiscal year. The number of waste tires collected and disposed by each county is presented in Table 3.

The counties currently operate 20 waste tire collection sites. A list of each waste tire collection site by county, with the name and address of the operator and directions to the waste tire collection site, is available at <http://www.adeq.state.az.us/enviro/waste/solid/download/wtcoord.pdf> or by contacting the Waste Tire Program at (602) 207-4673. No new waste tire collection sites opened during FY 2001.

The seven main destinations to which the counties transported their waste tires

are described below.

Azusa Land Reclamation Site

Azusa Land Reclamation Site, located in Azusa, Calif., contains a monofill where waste tires are buried for disposal.

BAS Recycling

BAS Recycling, located in San Bernardino, Calif., processes the tires it accepts cryogenically, producing crumb rubber for rubberized asphalt, new tires, athletic fields and playground surfaces. Also, crumb rubber is used in forms for tiles and mats. Additionally, the company sells crumb rubber to other manufacturers.

Environtech Industries

Environtech Industries, located in Phoenix, Ariz., peels and shreds 85 percent of the tires it receives to produce crumb rubber. Another 15 percent are chipped to become tire derived fuel. In addition, passenger tires were also used in engineering projects. These projects included using baled tires to prevent lakeshore erosion, constructing small dams along desert washes to inhibit erosion, and using halved tires as substratum below golf course surfaces to enhance water conservation.

Landstar (formally PolyTek Southwest)

Landstar, located in Queen Creek, Ariz., processes passenger, light truck and semi-truck tires into crumb rubber for recycling into rubberized asphalt and molded rubber products, such as soaker hoses. Semi-truck tires are currently being stored on-site awaiting the installation of new equipment for processing. Any off-road tires accepted by Landstar are forwarded to BAS Recycling in Azusa, Calif.

La Paz County Landfill

La Paz County Landfill, located outside of Parker, Ariz., shreds and monofills the tires it receives on-site.

Mitsubishi Cement

Mitsubishi Cement, located in Ontario, Calif., accepts all three types of tires and burns them for energy that is used in the production of cement.

Unlimited Tire Technologies (UTT)

UTT, located in Azusa, Calif., processes the tires it receives into crumb rubber. The material is used in the molded rubber products industry to manufacture items such as playground surfaces, floor and wall mats and traffic cones.

Table 4 shows the approximate number of waste tires each contractor received from each county in FY 2001. Table 5 indicates the amount of money spent by

each county to operate their waste tire collection sites. The total waste tire fund, plus any other revenue received by the county, minus the operating costs, is shown for each county.

Table 6 is a five-year summary of the amount of monies collected by the waste tire fund, the number of new tires sold, and the total number of waste tires collected and disposed by the counties, through FY 2001. Table 7 summarizes some observations and general statistics for the Waste Tire Program .

Table 1. Number of Tires Collected by County and Type of Tire in FY 2001					
County	Registered Tire dealers	Type of Tire			Totals
		Passenger/ Light Truck	Semi- Truck	Off- Road	
Apache	6	3,200	487	20	3,707
Cochise	41	42,154	983	26	43,163
Coconino ¹	58	85,411	6,744	(201)	91,954
Gila	42	42,328	1,743	227	44,298
Graham	13	38,750	1,177	269	40,196
Greenlee	5	4,668	27	94	4,789
La paz	9	13,975	4,752	1,150	19,877
Maricopa	639	2,490,943	192,700	19,596	2,703,239
Mohave	61	190,350	18,889	1,255	210,494
Navajo	29	59,519	5,838	364	65,721
Pima	122	636,866	28,910	3,141	668,917
Pinal ²	See footnote	66,486	4,636	984	72,106
Santa Cruz	20	24,438	1,208	33	25,679
Yavapai	58	102,911	5,098	2,526	110,535
Yuma	25	79,506	7,743	2,941	90,190
Total	1,122	3,881,505	280,935	32,425	4,194,865
Percent		90.47%	8.46%	1.06%	

¹ The negative 201 off-road tires is an adjustment for all three collection points in the county to reflect the estimated number of tires left in the yard. The tire count is off due to differences between actual number of tires and estimated number of tires as determined by weight conversions.

² Pinal County did not report the number of registered tire dealers using its waste tire collection sites during FY 2001.

County	Funding by Quarter				Total	Percent Change ¹
	1st	2nd	3rd	4th		
Apache	\$18,899.50	\$20,383.95	\$18,675.30	\$18,567.58	\$76,526.33	+ 11.85
Cochise	\$43,161.51	\$46,551.61	\$42,649.50	\$42,403.49	\$174,766.11	+ 11.85
Coconino	\$42,305.88	\$45,628.77	\$41,804.02	\$41,562.88	\$171,301.55	+ 11.85
Gila	\$23,011.11	\$24,818.51	\$22,738.14	\$22,606.98	\$93,174.74	+ 11.84
Graham	\$9,979.20	\$10,763.01	\$9,860.82	\$9,803.94	\$40,406.97	+ 11.84
Greenlee	\$3,699.62	\$3,990.20	\$3,655.73	\$3,634.65	\$14,980.20	+ 11.85
La Paz	\$8,998.48	\$9,705.27	\$8,891.74	\$8,840.45	\$36,435.94	+ 11.85
Maricopa	\$849,780.48	\$916,526.13	\$839,699.83	\$834,856.27	\$3,440,862.71	+ 11.85
Mohave	\$65,986.08	\$71,168.93	\$65,203.31	\$64,827.21	\$267,185.53	+ 11.85
Navajo	\$31,112.50	\$33,556.22	\$30,743.43	\$30,566.09	\$125,978.24	+ 11.85
Pima	\$229,075.46	\$247,068.10	\$226,358.02	\$225,052.34	\$927,553.92	+ 11.85
Pinal	\$54,552.71	\$58,837.52	\$53,905.57	\$53,594.63	\$220,890.43	+ 11.85
Santa Cruz	\$14,946.44	\$16,120.40	\$14,769.14	\$14,683.95	\$60,519.93	+ 11.84
Yavapai	\$69,334.41	\$74,780.26	\$68,511.92	\$68,116.73	\$280,743.32	+ 11.85
Yuma	\$47,706.93	\$51,454.06	\$47,141.00	\$46,869.08	\$193,171.07	+ 11.85
ADEQ	\$54,859.34	\$59,168.24	\$54,208.56	\$53,895.87	\$222,132.01	+ 11.85
Total					\$ 6,346,629.00	+ 11.85

¹ The Department of Revenue did not update the numbers of vehicles registered in each county during FY 2001. Consequently, monies were distributed based on FY 2000 vehicle registrations amounts, which accounts for the 11.85 or 11.84 percent increase in each county's budget. The Department of Revenue will make the appropriate financial

adjustments (based on the difference between the FY 2000 and FY 2001) during the second quarter of FY 2002 and adjustments will be shown in the FY 2002 report.

Table 3. Waste Tires Collected and Disposed by County in FY 2001

County	Number of Tires				Cost per Tire
	Tires Remaining 06/30/00 ¹	Waste Tires Collected	Waste Tires Recycled/ Disposed	Tires Remaining (06/30/01)	
Apache	288	3,707	2,204	1,791	\$34.72
Cochise ²	959	43,163	42,520	10,643	\$4.11
Coconino ²	5,774	91,954	88,705	8,683	\$1.94
Gila ²	7,660	44,298	36,911	7,387	\$2.52
Graham ²	10,477	40,196	43,016	11,343	\$0.94
Greenlee ²	1,784	4,789	31	4,668	\$483.23
La Paz ²	38,250	19,858	9,215	40,300	\$3.95
Maricopa ²	343,647	2,703,239	2,683,504	253,011	\$1.28
Mohave ^{2,3}	604,023	210,491	0	184,441	NA
Navajo ²	48,217	65,721	85,790	26,300	\$1.47
Pima ²	20,300	668,917	731,228	131,556	\$1.27
Pinal ³	11,650	72,106	72,669	7,620	\$3.04
Santa Cruz ⁴	1,635	25,679	23,493	3,821	\$2.58
Yavapai ²	10,110	110,535	121,126	14,974	\$2.32
Yuma	37,255	90,190	122,515	4,930	\$1.58
Total	1,142,029	4,191,136	4,087,758	1,136,368	

¹ All figures given for tires remaining as of June 30, 2000 were taken from waste tire annual reports submitted by the counties for FY 2000. These figures appear in the Arizona Department of Environmental Quality's Annual Waste Tire Report for FY 2000.

² The figures given for tires remaining in 2000, waste tires collected, waste tires disposed and tires remaining in 2001 are not consistent for all the counties except Apache and Santa Cruz. This results from collected tires being counted by number while tires being transported for disposal are measured by weight. The conversion factors between weight

and number are not precise.

³ Mohave County did not report any disposal of waste tires. The county is stockpiling the tires it collected during FY 2001. Therefore, a figure for the cost of disposal per tire cannot be calculated at this time.

⁴ Santa Cruz County did not report the number of semi-truck and off-road tires disposed during FY 2001. The number was determined using invoices from specialty loaders, the hauler that transported the tires to their ultimate destination. The county also did not report the number of tires remaining at the end of FY 2001. This is the second consecutive year they have not reported this number. The number of tires remaining was determined from the other figures provided. This value needs to be verified with the county, and if different from its count, further research is required.

Table 4. County Waste Tire Contractors and Number of Tires Handled in FY 2001

County	Azusa Land Reclamation Site	BAS Recycling	Envirotech Industries	Landstar	La Paz County Landfill	Mitsubishi Cement	UTT	Total Recycled/ Disposed
Apache	0	0	0	2,204	0	0	0	2,204
Cochise	0	2,603	0	37,897	0	0	1,930	42,430
Coconino	168	0	0	88,537	0	0	0	88,705
Gila	0	188	0	35,333	0	0	1,390	36,911
Graham ¹	0	288	0	41,469	0	0	1,260	43,017
Greenlee	0	4	0	0	0	0	27	31
La Paz	0	0	0	0	9,215	0	0	9,215
Maricopa	0	0	609,585	2,073,919	0	0	0	2,683,504
Mohave	0	0	0	0	0	0	0	0
Navajo	0	0	0	85,790	0	0	0	85,790
Pima	0	0	0	731,228	0	0	0	731,228
Pinal	0	0	0	71,544	0	0	1,125	72,669
Santa Cruz ²	0	0	0	22,754	0	0	739	23,493
Yavapai	0	0	4,816	115,975	0	0	335	121,126
Yuma	1,981	0	5,000	823	0	115,534	0	123,338
Total	2,149	3,083	619,401	3,307,473	9,215	115,534	6,806	4,063,661
Percent ³	0.05%	0.08%	15.24%	81.39%	0.23%	2.84%	0.17%	

¹ *Graham County did not report the breakdown of tires recycled or disposed. After speaking with the county, it was agreed that ADEQ could use the profile of the tires collected to determine the profile of the tires recycled or disposed. This profile was then used to determine the number of tires transported to each destination.*

² *Santa Cruz County did not break down the tires transported out of the county by type because they believe that everything collected was transported out of the county. The estimate of 22,754 passenger tires was determined by multiplying the 227.54 tons taken to Landstar by 100, the number of passenger tires in a ton. Specialty loaders verified that 36.93 tons of semi-truck tires were transported, which is 739 tires when multiplied by 20, the number of semi-truck tires in a ton. Specialty loaders did not have an invoice for off-road tires from Santa Cruz County or Rio Rico Landfill, the county's waste tire collection site.*

³ *As there are uncertainties in the figures from some counties, the totals and percentages given are tentative, and should be recognized as such.*

County	Waste Tire Fund	Tipping Fees/Other Revenue	Total Revenue	Operating Expenses	Operating Balance
Apache	\$74,292.81	\$1,211.00	\$75,503.81	\$26,396.00	\$49,107.81
Cochise	\$174,766.11	\$22,220.62	\$196,986.73	\$259,946.09	(\$62,959.36)
Coconino	\$171,301.55	\$8,020.00	\$179,321.55	\$156,562.28	\$22,759.27
Gila	\$93,174.74	\$2,648.00	\$95,822.74	\$107,985.79	(\$12,163.05)
Graham	\$40,406.97	\$0.00	\$4,040,697.00	\$51,026.00	\$3,989,671.00
Greenlee	\$14,980.20	\$665.99	\$15,646.19	\$12,260.00	\$3,386.19
La Paz	\$36,435.94	\$4,341.43	\$40,777.37	\$12,714.80	\$28,062.57
Maricopa	\$3,340,437.00	\$3,333.00	\$3,343,770.00	\$2,995,444.00	\$348,326.00
Mohave	\$267,185.53	\$20,228.82	\$287,414.35	\$157,859.80	\$129,554.55
Navajo	\$125,978.24	\$0.00	\$131,000.93	\$140,710.23	(\$9,709.30)
Pima	\$927,553.00	\$66,699.00	\$994,252.00	\$781,195.00	\$213,057.00
Pinal	\$209,662.36	\$5,616.75	\$12,889.60	\$209,662.36	(\$196,772.76)
Santa Cruz	\$58,753.58	\$0.00	\$58,753.58	\$41,420.78	(\$41,362.03)
Yavapai	\$280,743.32	\$15,396.68	296.140.00	\$287,758.03	(\$287,461.89)

Yuma	\$193,171.07	\$44,807.27	\$237,978.34	\$300,089.61	(\$62,111.27)
Total	\$5,475,846.00				

Table 6. Five-year Summary of Fees Collected And the Number of Tires Sold, Collected and Disposed				
Fiscal Year	Waste Tire Fees Collected	Number of New Tires Sold	Number of Waste Tires Collected	Number of Waste Tires Recycled/Disposed
1997	\$5,075,119.84	4,567,426	3,440,771	4,621,377
1998	\$5,125,561.09	4,650,729	3,433,903 ¹	4,740,175 ¹
1999	\$5,476,881.00	5,064,460	3,803,673	4,354,382
2000	\$5,674,451.55	5,309,534	3,725,875 ²	4,093,931 ^{2,3}
2001	\$6,364,629.00	5,665,453	4,194,847	4,062,927

¹ The 1998 figures were amended and include waste tires collected and disposed by Apache, La Paz and Santa Cruz counties, which were reported late in 1998.

² The 2000 figures have been amended to include tires collected and disposed in Apache County. Apache County had not submitted an annual report for FY 2000 by the appropriate deadline.

³ The number of tires disposed in FY 2000 does not include La Paz County as the county did not identify whether any tires were disposed during that fiscal year.

Table 7. Waste Tire Program General Statistics		
	FY 1997- FY 2001	FY 2000- FY 2001
Change in waste tire fund	+ 25.4%	+ 12.2%
Change in number of motor vehicle tires sold	+ 24.0%	+ 6.7%
Change in number of waste tires collected	+ 21.9%	+ 12.6%
Change in number of waste tires disposed	-12.1%	-0.8 ¹ %

¹ The percent change in the number of tires disposed between FY 2000 and FY 2001 is tentative as it does not include La Paz County. La Paz County did not identify whether any tires were disposed during the FY 2001. However, the number of tires unaccounted

would only accentuate the trend that for a second straight year, fewer tires were disposed. The reduction in the number of tires disposed between FY 2000 and FY 2001 can be attributed to Mohave County storing all the tires collected in FY 2001.