



Scrap Tire Management in Texas

MELISSA HARRISON

WASTE PERMITS DIVISION

TRADE FAIR MAY 2022

Scrap Tire Program Overview

What we do

- Regulate the management of approximately 45 million discarded tires in Texas per year

Authority/Rules

- Texas Health & Safety Code Section §361.011, 361.112, 361.1125
- Title 30, Texas Administrative Code (TAC) Chapter 328, Subchapter F – Management of Used or Scrap Tires



What is a scrap tire?

A tire that can no longer be used for its intended purpose.

Good, used tires



Scrap tires



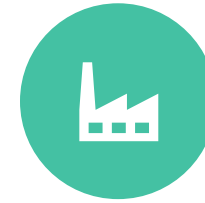
Registration Types



GENERATOR



TRANSPORTER



SCRAP TIRE
FACILITY



STORAGE SITE



LAND
RECLAMATION
PROJECT
USING TIRES



TRANSPORTATION
FACILITY



Generator

Tire retailers, automotive dismantlers, fleet operators, wholesalers, manufacturers, and recappers or retreaders

May store up to:

- 500 used or scrap tires on the ground; or
- 2,000 tires in enclosed, lockable containers

A transporter registration is not required if a generator is transporting tires between businesses or to an authorized facility





Transporters

Collects and transports used and/or scrap tires to an authorized facility

General Requirements:

- Identification must be properly displayed on both sides and rear of trailers and trucks
- Must transport used and/or scrap tires and tire pieces to an authorized scrap tire destination or end-use
- Cannot store tires onsite without a separate registration
- Annual report requirements



Scrap Tire Facilities

Processing

- Shredding, baling, cutting, crushing, or splitting; crumb rubber production

Recycle/Reuse

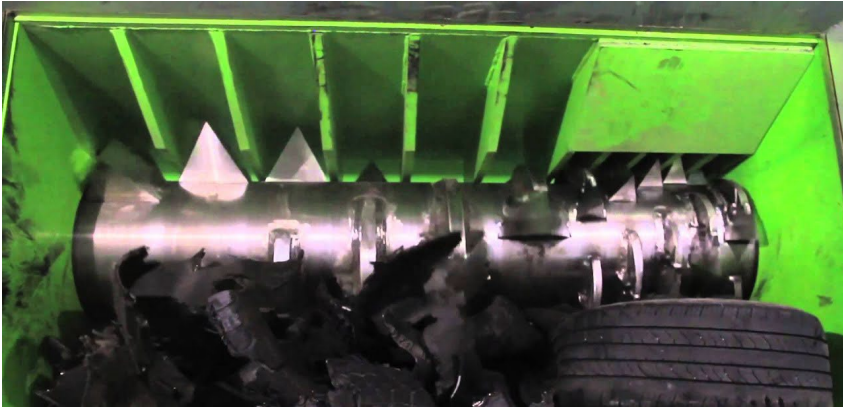
- Remolding; recycling into a new product

Energy Recovery/Thermal Decomposition

- Tire-derived fuel (TDF)
- Steel recovery

Storage Limits:

- 500 used or scrap tires on the ground; or 2,000 tires in enclosed, lockable containers
- May exceed these limits if the activity qualifies for a 30-day supply



Scrap Tire Facilities

You must have a scrap tire facility registration if you cut tires.

This includes generators who cut their own scrap tires onsite.

You are required to notify local authorities as part of the application. TCEQ recommends you contact them before you send the notification to explain your process.



Storage Sites

Registration is required if:

- Owner stores more than 500 used or scrap tires on the ground; ***or***
- More than 2,000 used or scrap tires in enclosed and lockable containers.

Plans must be signed and sealed by a professional engineer

Registration is valid for five years from the date of issuance



Land Reclamation Projects Using Tires

A project to fill, rehabilitate, improve or restore already excavated, deteriorated, or disturbed land

Requirements:

- Restore the land to its approximate natural grade and to prepare or reclaim the land for reuse
- No more than 50% by volume of tire pieces along with inert fill materials
- Split, quarter or shred all tires used to fill land. Whole tires are not to be placed below ground
- Cover completed projects with 18 inches of clean soil



Transportation Facility

Stores tires for periods longer than 30 calendar days at transportation facilities such as marine terminals, rail yards, or trucking facilities





Manifest Requirements

“Cradle to Grave” tracking of used and/or scrap tires or tire pieces from point of generation to end-use/disposal. Keep copies onsite for three years

Five-part manifest. Who is responsible?



Generators



Transporters



Authorized facility



Manifest FAQs

Question: Where can I get a copy of the manifest?

The manifest template is available on the TCEQ Used and Scrap Tire Management webpage. TCEQ does not provide copies of the manifest. Take the template to a copy/print shop and request copies to be made according to the instructions on the template.

Question: I'm unable to find the green, yellow, blue, and pink carbon copy paper to print the TCEQ Whole Used or Scrap Tire Manifest. Can I use a different color than what is listed on form TCEQ-10304?

Yes. Specify which color is for which registered entity on the manifest.

Question: My tire business closed, do I need to maintain copies of the manifests for three years?

Yes, per 30 TAC §328.58, generators must maintain manifests for three years.



Annual Reports

Who reports?



Transporters – location and number of tires collected and where they were taken



Scrap Tire Facilities – number and type of tires received, processed, and where they were taken



Storage Sites – number and type of tires received, processed, and where they were taken



Annual Reports

Why is submitting a scrap tire annual report important?

- Reporting helps the state identify needs and potential resources.
- Annual reports are used by industry leaders to determine viability of concepts and applications of scrap tires.
- Reporting is required by rule for some registrations.



Annual Report FAQs

Do I need to submit an annual report if I didn't conduct scrap tire business in the last calendar year?

Yes!

Can I submit a spreadsheet with my scrap tire activity instead of completing the tables in the annual report form?

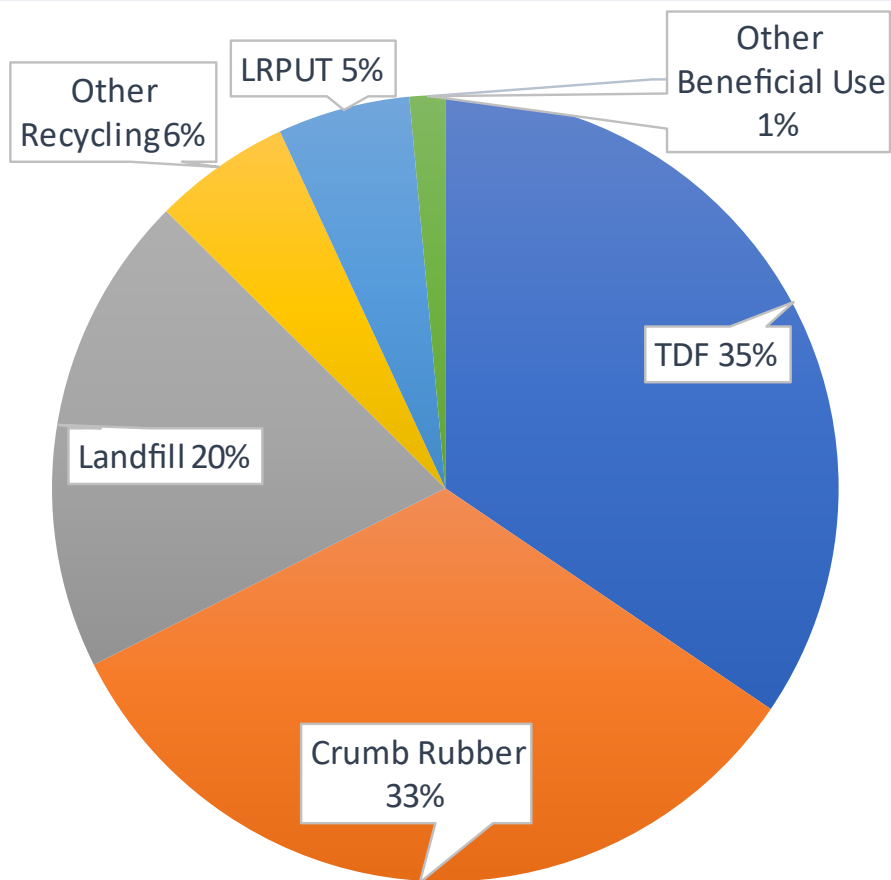
Yes, but the column totals must be completed on the form and the spreadsheets should have the same information that is requested in a similar format.

How do I submit the annual report forms to the TCEQ?

By email to tirerpts@tceq.texas.gov or by mail to the address provided. Do not fax reports.



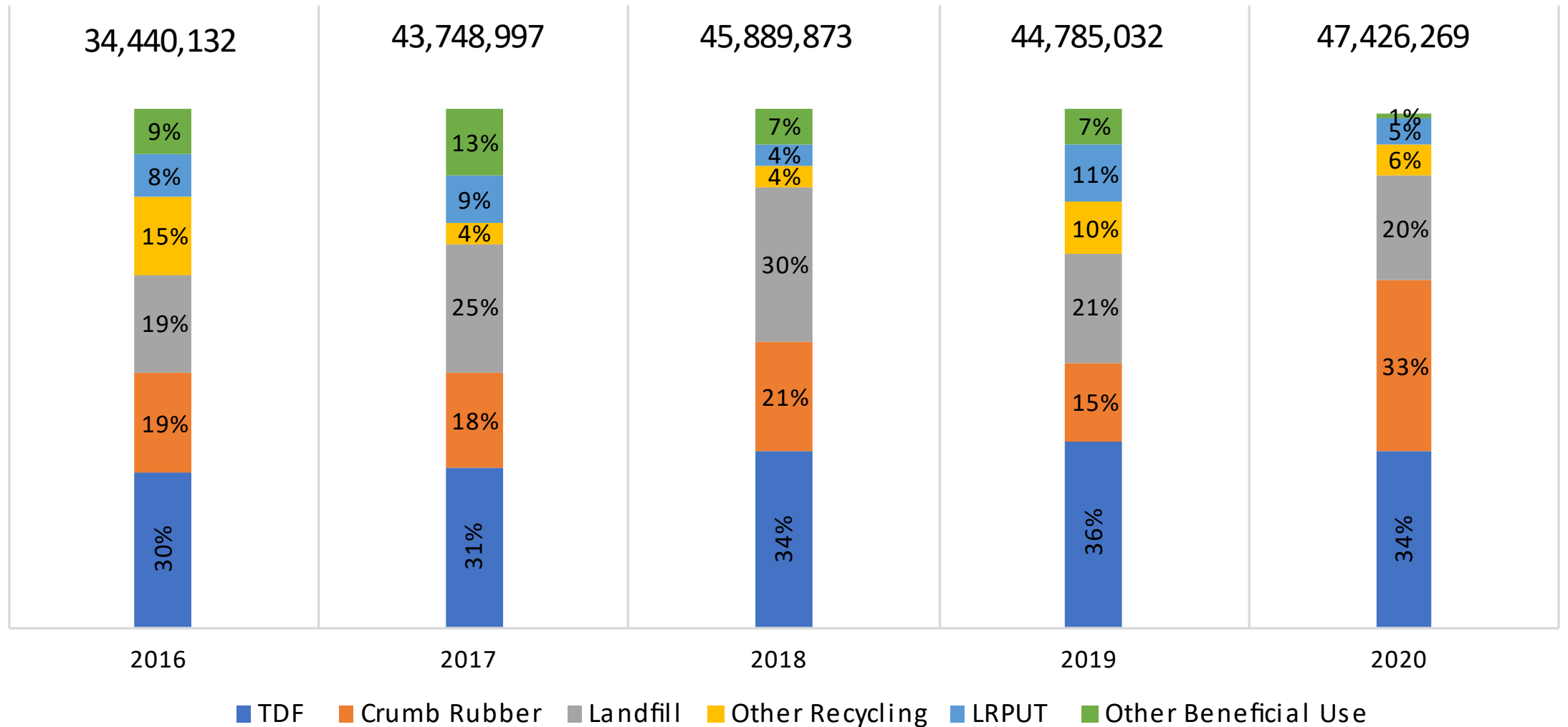
Highlights from the 2020 Annual Report



End-Use or Disposition	Approximate Scrap Tire Units Utilized or Disposed
Tire-Derived Fuel	16,357,436
Crumb Rubber	15,699,376
Landfill	9,415,625
Other Recycling	2,677,818
LRPUT	2,582,254
Other Beneficial Use	693,760
Total	47,426,269

END - USES FOR SCRAP TIRES 2016 TO 2020

Tires Per Year





Beneficial Use

Interested parties must work with their local TCEQ regional office and TCEQ Scrap Tire Program before beginning activities, including tire collection.

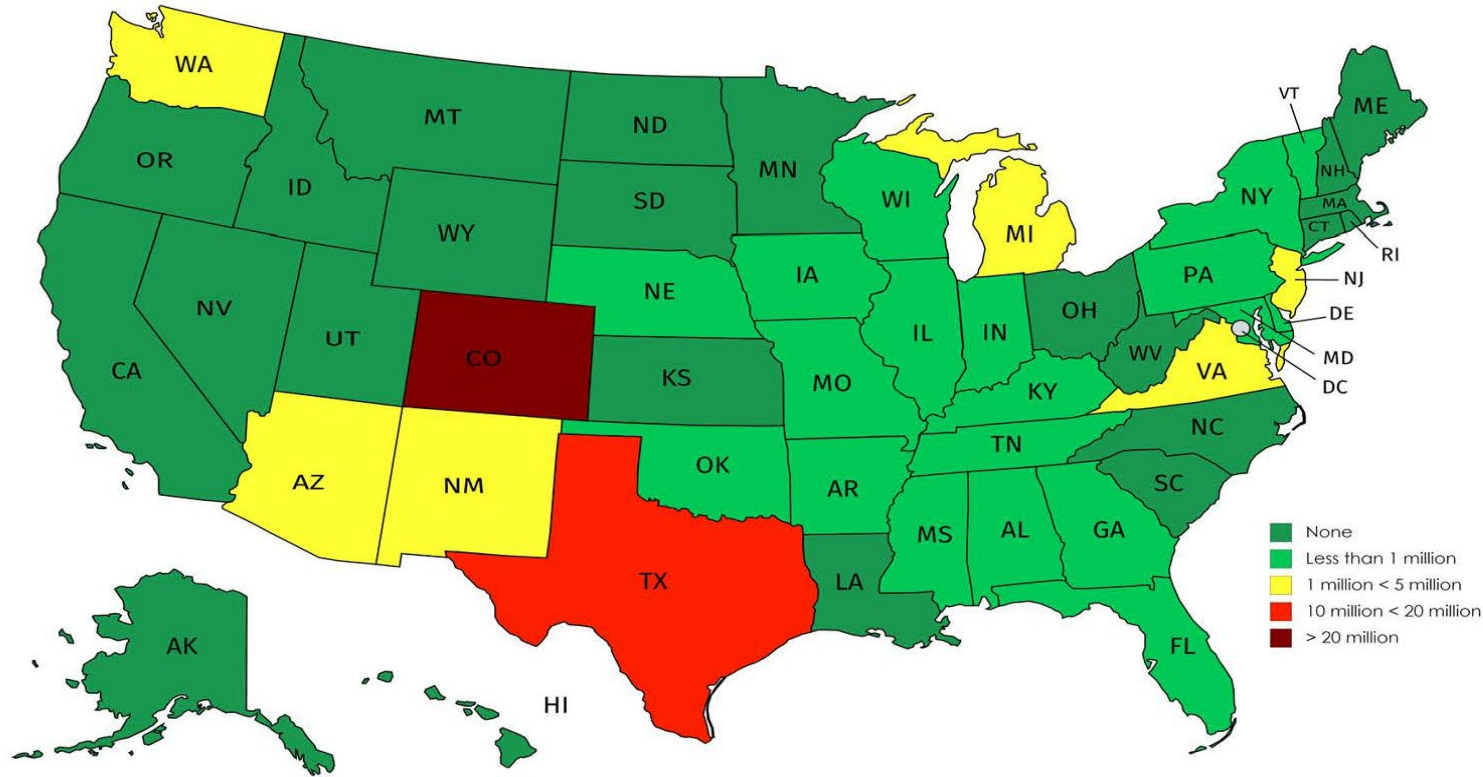
General guidelines include:

- Does not pose an actual or potential endangerment to public health and safety or to the environment
- The tires are managed in such a manner that they do not migrate from the project site
- Does not violate local regulations, ordinances, or requirements
- Does not violate state regulations or requirements

[Guidance for Projects Involving Beneficial Use of Used or Scrap Tires](#)

Where does Texas rank?

Stockpiled Tires Remaining in the U.S.





Scrap Tire Sites in Texas

Currently, 11.6 million tires across 108 known scrap tire sites across the state

Sizes range from a few hundred to over a million

Risks include fire and mosquito borne illness

Challenges include costs for transportation and disposal, condition of site, and condition of tires

Successful Remediation of Scrap Tire Sites

In 2020, approximately 475,743 tires were removed from 12 unauthorized sites, with cleanup continuing at two sites.

Recent major scrap tire cleanups

- Safe Tire Disposal, San Antonio, TX – 1.2 million tires
- World Tires, Brownsville, TX – 100,000 tires
- Gatesville Tire Site, Gatesville, TX – 750,000 tires
- Vista International, Hutchins, TX – 2.5 million tires

Scrap Tire Management Challenges

Funding cleanup efforts for existing and newly created tire stockpiles

Expanding existing markets or developing new markets and end-uses, including transportation-related uses

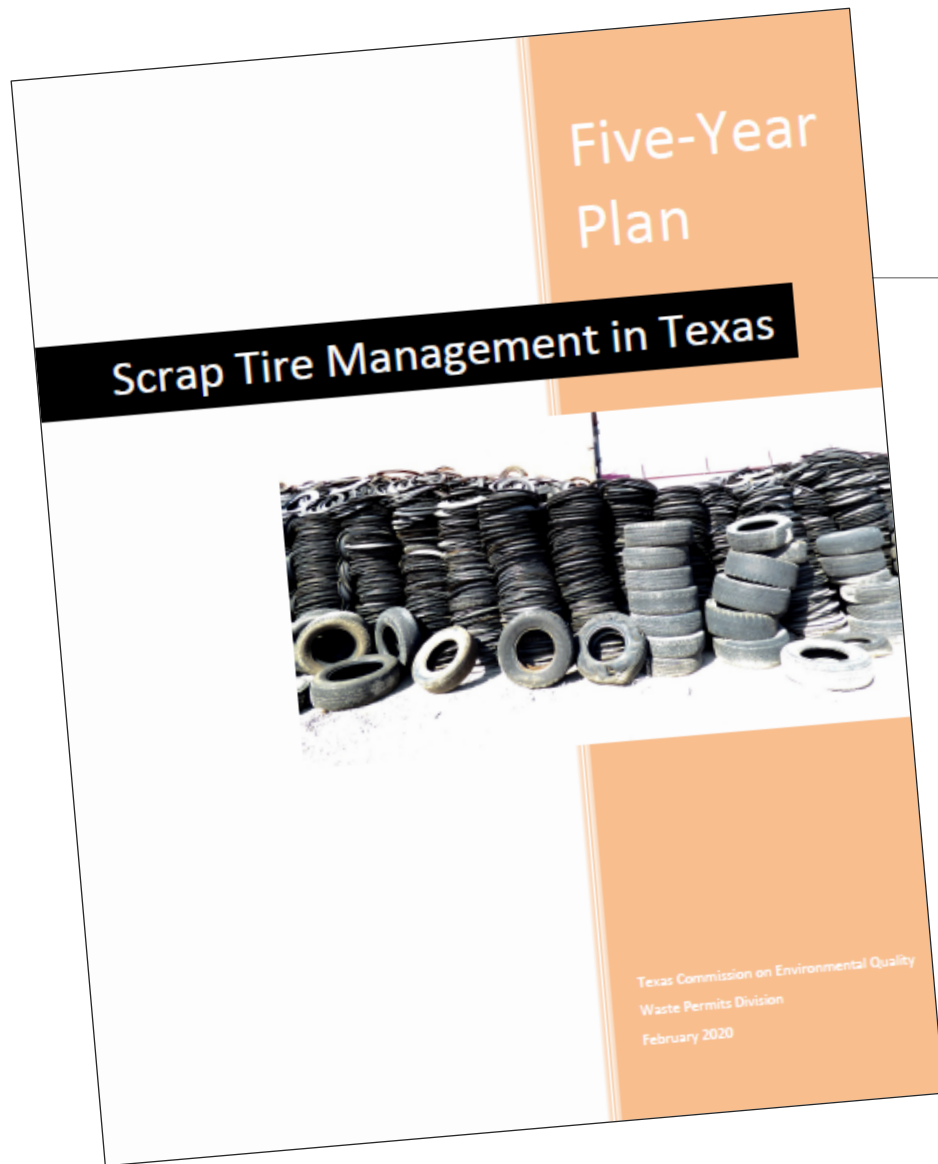
Minimizing illegal dumping of scrap tires

Improving compliance with TCEQ scrap tire regulations, including reporting requirements



Discarded Scrap Tires as Tire-Derived Fuel

- Discarded scrap tires across the state now have an opportunity to be used as tire-derived fuel at cement kilns.
- In 2019, the EPA provided clarification that “unmanaged” tires from unauthorized tire sites could be used as fuel by cement kilns.
- During processing, 2 to 10 percent of wire must be removed from tires prior to use as fuel, rather than up to the previous 90 percent.



Scrap Tire Management Five-Year Plan

Now available on the TCEQ Used and Scrap Tire Management webpage

- Strategy for proper handling, storage, use, and disposal of scrap tires
- Identifies scrap tire management challenges
- Establishes goals to improve scrap tire management in Texas

Scrap Tire Management Five-Year Plan

Focuses on five categories:

- Annual reporting
- Registered generators
- Unauthorized scrap tire sites
- Developing and coordinating partnerships
- Resources for the public and local governments



How scrap tire businesses fit into the five-year plan

- Annual reporting – The information provided drives scrap tire management decisions and helps industry leaders identify gaps in the market.
- Unauthorized scrap tire sites – Scrap tires from unauthorized sites can be used as a resource for crumb rubber, tire-derived fuel, LRPUT, or another purpose.
- Developing and coordinating partnerships – We want to continue developing relationships and connecting local governments with businesses.
- Resources for the public and local governments – Tell TCEQ when your contact information changes so we can update the list of active scrap tire handlers on our website.

How local governments fit into the five-year plan

- Registered generators – If your code enforcement regularly visits tire shops, please let us know if they are still in business or if they have closed.
- Unauthorized scrap tire sites – Reach out to your TCEQ regional office and the TCEQ Scrap Tire Program to let us know of unauthorized scrap tire sites.
- Developing and coordinating partnerships – The TCEQ Scrap Tire Program may be able to provide resource if your organization is developing local ordinances for scrap tires.
- Resources for the public and local governments – The TCEQ Scrap Tire Program wants to hear what resources would be helpful for your organization.

Join Our Listserv!

- Receive updates from the Scrap Tire Program, and notification of scrap tire reports, forms, rules, guidance, and procedure updates.
- To sign up for the Scrap Tires Listserv, email join-tires@listserv.tceq.texas.gov.



A stack of several old, worn tires, showing their tread patterns and some damage. The tires are piled on top of each other, creating a sense of depth and texture.

Resources and Contacts

30 TAC 328 Subchapter F, Management of Used or Scrap Tires

TCEQ Scrap Tire Program

<https://www.tceq.texas.gov/tires/tires>

Contacts

General questions to tires@tceq.Texas.gov

Questions about annual reports tirerpts@tceq.Texas.gov