



ARIZONA DEQ WASTE PROGRAMS DIVISION USED AND WASTE TIRE REGULATIONS

Presented by
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October 17, 2018



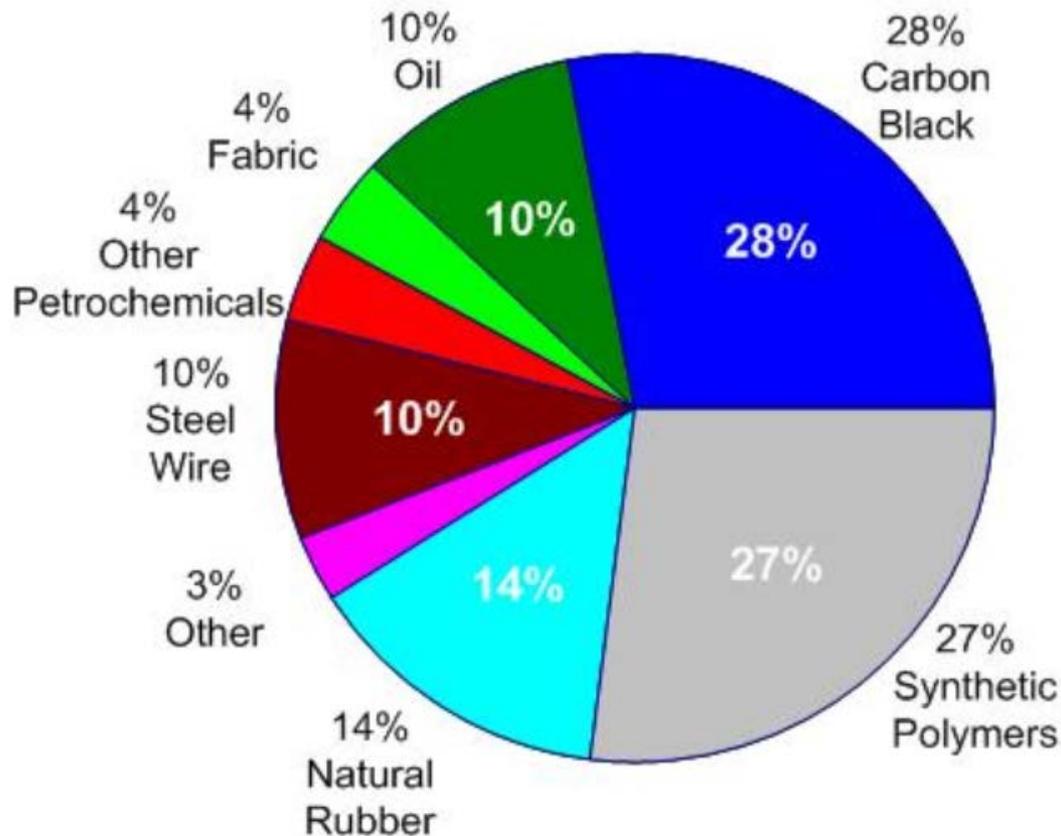
FIRE HAZARD



The most significant hazard associated with storing used and waste tires outdoors is the potential for fire. These fires produce a lot of smoke which contain toxic materials and are difficult to extinguish.

TIRE CONSTITUENTS

Of course, tires are made of much more than rubber materials. Especially surprising to many is the high proportion of *carbon black* (amorphous carbon soot) in tires. This material serves as a binding and reinforcing agent, a pigment, and it also improves the thermal conductivity — important for preventing localized overheating.



TYPES OF TIRES - DEFINITIONS

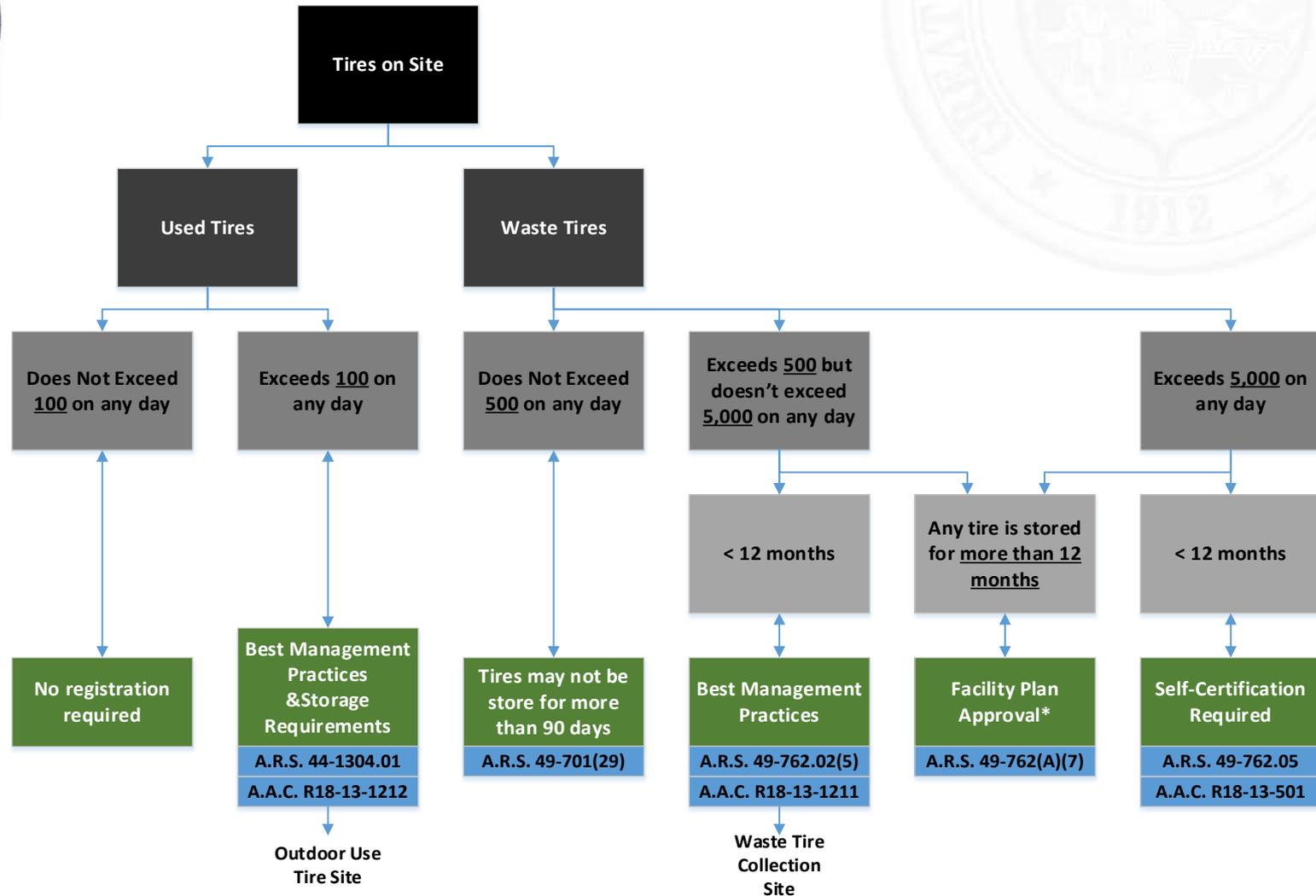
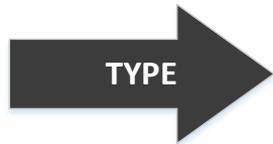
- **“Used tire”** means any tire which has been used for more than one day on a motor vehicle.
- **“Waste Tire”** means a motor vehicle tire that is no longer suitable for its original intended purpose because of wear, damage, improper repair or manufacturer's recall.



- **"Wear"** means the reduction of the major groove depth of the tire to two thirty-seconds of an inch.
- **"Damage"** means any cracking, bubbling, cutting, chunking or separation of the tire sidewall or tread, including exposed body ply or belt material, or any visible deterioration of the tire bead or inner liner.
- **"Improper repair"** means any puncture repair of damage larger than one-fourth of an inch, any puncture repair to a tire sidewall, the tread shoulder or belt edge area, or a puncture repair that has not been both sealed or patched on the inside and repaired with a cured rubber stem through to the outside.



TIRE SITE REQUIREMENTS

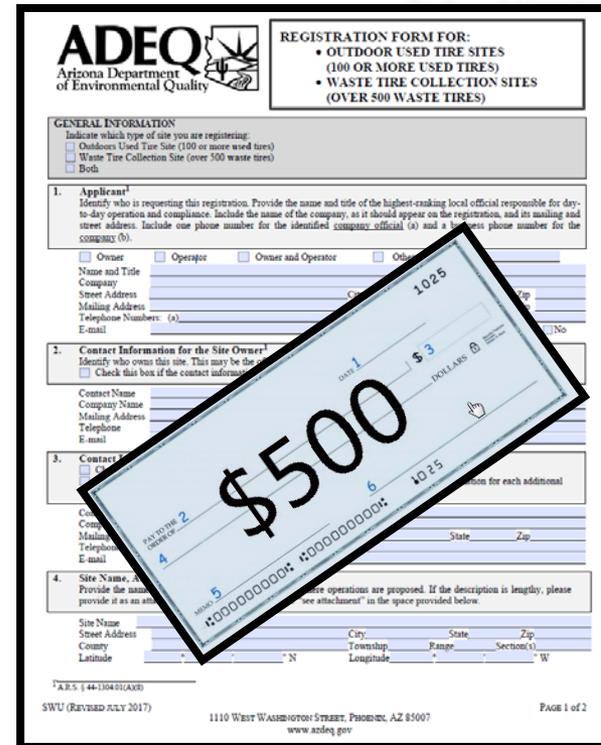


*Unless the site is a WTCS owned by a municipality or a county

Waste Tire Collection Site (500-5,000 Waste Tires) and/or Outdoor Used Tire Site (100 or More Used Tires)

Initial Registration

- Complete Registration Form
<http://azdeq.gov/forms>
- Initial registration fee of \$500



ADEQ
Arizona Department
of Environmental Quality

REGISTRATION FORM FOR:
• OUTDOOR USED TIRE SITES
(100 OR MORE USED TIRES)
• WASTE TIRE COLLECTION SITES
(OVER 500 WASTE TIRES)

GENERAL INFORMATION
Indicate which type of site you are registering:
 Outdoor Used Tire Site (100 or more used tires)
 Waste Tire Collection Site (over 500 waste tires)
 Both

1. Applicant¹
Identify who is requesting this registration. Provide the name and title of the highest-ranking local official responsible for day-to-day operation and compliance. Include the name of the company, as it should appear on the registration, and its mailing and street address. Include one phone number for the identified company official (a) and a business phone number for the company (b).

Owner Operator Owner and Operator Other

Name and Title _____
Company _____
Street Address _____
Mailing Address _____
Telephone Numbers: (a) _____ (b) _____
E-mail _____

2. Contact Information for the Site Owner¹
Identify who owns this site. This may be the same as the applicant.
 Check this box if the contact information is different from the applicant's.

Contact Name _____
Company Name _____
Mailing Address _____
Telephone _____
E-mail _____

3. Contact Information for Additional Sites¹
Provide contact information for each additional site.

Contact Name _____
Company Name _____
Mailing Address _____
Telephone _____
E-mail _____

4. Site Name, Address, and Location¹
Provide the name and address of the site. If the site is located on a highway, provide it as an alternate address. If the site is located on a highway, provide the alternate address in the space provided below.

Site Name _____
Street Address _____
County _____ City _____ State _____ Zip _____
Latitude _____ Township _____ Range _____ Section(s) _____
Longitude _____

¹A.R.S. § 44-104(B)(4)(B)

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Renew

- A \$75 registration fee shall be paid annually thereafter within 30 days of invoice receipt.



1025

DATE 1

PAY TO THE ORDER OF 2 \$ 3

4 \$75 DOLLARS

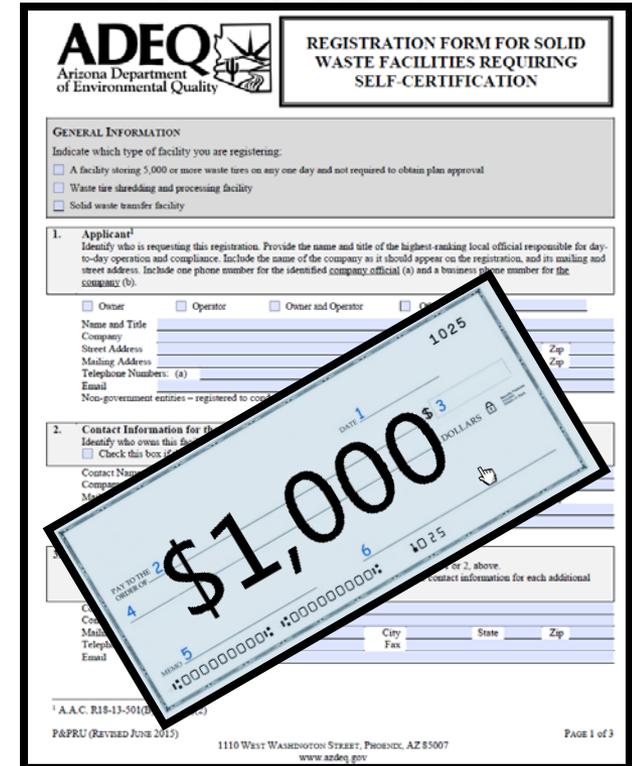
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Self-Certification (5,000 or More Waste Tires)

Initial Registration

- Complete Registration Form - <http://azdeq.gov/forms>
- Initial registration fee of \$1,000
- Additional Information:
 - Brief description of operations.
 - A diagram of the property showing its approximate size and the planned location of the SWF or facilities.
 - Documentation that the facility will comply with local zoning laws or, if the owner is an agency or political subdivision of this state, with A.R.S. § 49-767.
 - Documentation that the facility has any other environmental permit that is required by statute.
 - A copy of the public notice in a newspaper of general circulation in the area where the facility will be located stating the intent to construct and operate a new SWF pursuant to A.R.S. § 49-762.05.



ADEQ Arizona Department of Environmental Quality

REGISTRATION FORM FOR SOLID WASTE FACILITIES REQUIRING SELF-CERTIFICATION

GENERAL INFORMATION
Indicate which type of facility you are registering:
 A facility storing 5,000 or more waste tires on any one day and not required to obtain plan approval
 Waste tire shredding and processing facility
 Solid waste transfer facility

1. Applicant*
Identify who is requesting this registration. Provide the name and title of the highest-making local official responsible for day-to-day operations and compliance. Include the name of the company as it should appear on the registration, and its mailing and street address. Include one phone number for the identified company official (a) and a business phone number for the company (b).

Owner Operator Owner and Operator Other

Name and Title _____
Company _____
Street Address _____
Mailing Address _____
Telephone Numbers: (a) _____
Email _____
Non-government entities - registered to conduct business in Arizona _____

2. Contact Information for the Applicant
Identify who owns this facility.
 Check this box if the applicant is a non-government entity.

Contact Name _____
Company _____
Mailing Address _____
Telephone Numbers: (a) _____
Email _____
Non-government entities - registered to conduct business in Arizona _____

City _____ State _____ Zip _____
Fax _____

* A.A.C. R18-13-501(D) (1) (2) (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) (17) (18) (19) (20) (21) (22) (23) (24) (25) (26) (27) (28) (29) (30) (31) (32) (33) (34) (35) (36) (37) (38) (39) (40) (41) (42) (43) (44) (45) (46) (47) (48) (49) (50) (51) (52) (53) (54) (55) (56) (57) (58) (59) (60) (61) (62) (63) (64) (65) (66) (67) (68) (69) (70) (71) (72) (73) (74) (75) (76) (77) (78) (79) (80) (81) (82) (83) (84) (85) (86) (87) (88) (89) (90) (91) (92) (93) (94) (95) (96) (97) (98) (99) (100)

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Renew

- A \$250 annual registration fee.



DATE 1 1025
PAY TO THE ORDER OF 2 \$3
4 \$250 DOLLARS
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Facilities that store 100 or more used motor vehicle tires outdoors must:

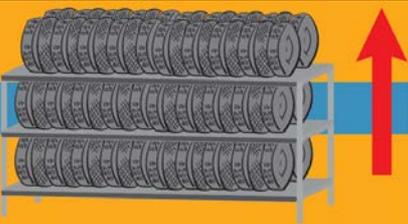
- Restrict smoking within 50 feet of the tire storage area. “No Smoking” signs shall be posted in suitable and conspicuous locations.
- Place Class 2A-10BC type fire extinguishers 75 feet travel distance from any point of a tire pile at well-marked locations
- Store tires in piles that:
 - Do not exceed 20 feet in height
 - Are not within 3 feet of the property line
 - Have at least 20 feet wide access routes, free of debris and vegetation.
 - Have a maximum grid system of 50 feet by 150 feet
 - Do not exceed 6 feet in height if stored within 3 to 10 feet of the property line.



USED TIRE STORAGE REQUIREMENTS

BE PREPARED

Place class "2A-10BC" type fire extinguishers within 75 feet from any point of a tire pile.



MAXIMUM HEIGHT OF TIRES

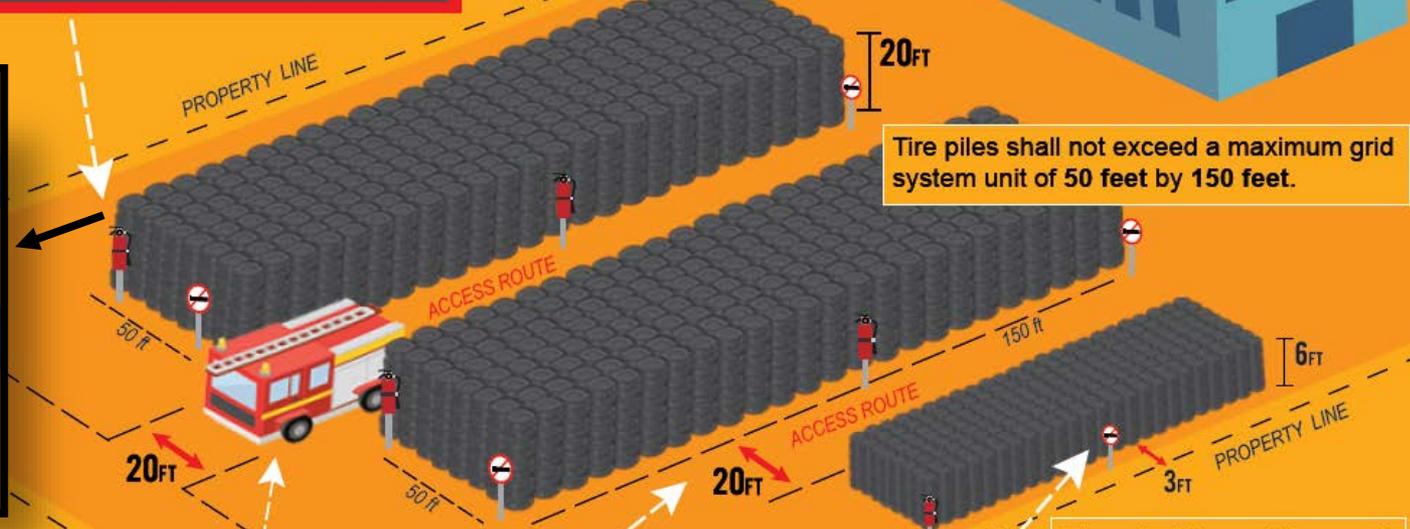
Distance from Property Line	Maximum height
3-10 Feet	6 Feet
>10 Feet	20 Feet

ACCESS ROUTES

Provide 20 foot-wide access routes between and around each tire pile. The access routes shall be free of trash, equipment or other materials that would prevent a fire truck from entering.



Tire piles shall not exceed a maximum grid system unit of 50 feet by 150 feet.



Tires shall be a minimum of 3 feet from the property line.

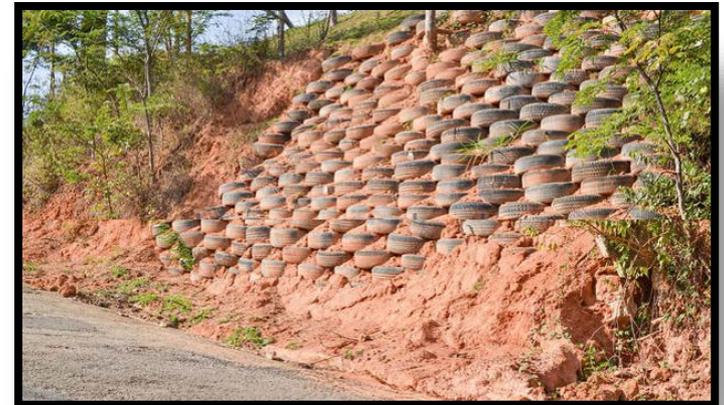
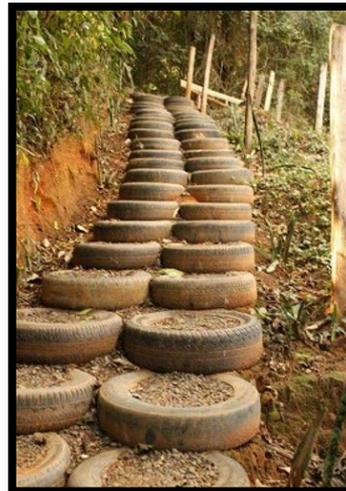


"NO SMOKING" SIGNAGE

Smoking is not allowed within 50 feet of the tire piles. Post "No smoking" signs.

METHODS OF DISPOSAL

- Retreading or recapping;
- Constructing collision barriers;
- Controlling soil erosion or for flood control only if used in accordance with approved engineering practices;
- Chopping or shredding for use as waste tire daily cover at a solid waste landfill;
- Grinding for use in asphalt and as a raw material for other products;
- Sludge composting;



METHODS OF DISPOSAL

- Using as playground equipment;
- Incineration or using as a fuel or pyrolysis if permitted by laws, regulations, or ordinances related to burning or fuel;
- Hauling to out-of-state collection or processing sites;
- Tire monofills, if tires are chopped or shredded;
- For use in building construction in accordance with applicable city, town, and county building codes; and
- Agricultural purposes such as bumpers on agricultural equipment or as ballast to maintain covers at an agricultural site.



REDUCE FIRE HAZARDS

Correctly place “No Smoking” signs, and correctly place fire extinguishers to avoid fire hazards.



REDUCE FIRE HAZARDS

Reduce size of tire piles to avoid fire hazards and increase access to the tire piles for fire control apparatus.



REDUCE FIRE HAZARDS

This is an example of well placed fire extinguishers and good access route.



REDUCE FIRE HAZARDS

- Keep vegetation and litter out of the tire storage area.



- Tire piles provide a space for disease vectors, such as mosquitoes and flies, to reproduce.



- Bees
- Snakes
- Rodents



- ADEQ Website

<http://azdeq.gov/forms>

- Arizona Revised Statutes

<https://www.azleg.gov/arstitle/>

- Arizona Administrative Code - Rule

<https://www.azsos.gov/rules/arizona-administrative-code#ID18>

- House Bill 2399

<http://www.azleg.gov/legtext/53leg/1R/laws/0201.htm>



Questions?

