Tools You Can Use

- To learn more about the dangers of backyard burning and disposal alternatives, visit EPA's Backyard Burning Web site at www.epa.gov/msw/backyard. This site also provides brochures and links to some tribal open burning regulations, codes, and ordinances.

- For more information on dioxins, how they are formed, associated health effects, and other frequently asked questions, visit EPA's Dioxin Web site at www.epa.gov/ncea/dioxin.htm.

- Contact tribal officials for more information on regulations and disposal alternatives in your community.

Reducing Backyard Burning in Indian Country

Burning of household waste is a long-standing practice in many rural areas, including Indian country and Alaskan Native villages. But smoke from these fires contains dangerous chemicals that affect your health and pollute our environment. What tribal members need to know to protect their health and the environment.
BACKYARD BURNING IS A HEALTH HAZARD

Backyard burning is a more serious threat to public health and the environment than previously believed. Burning household waste produces many toxic chemicals and is one of the largest known sources of dioxins in the nation. Several tribes nationwide have already banned this practice.

DIOXINS

What are dioxins?
Dioxins are highly toxic, long-lasting organic compounds. They are dangerous even at extremely low levels and have been linked to several health problems, including cancer, and developmental and reproductive disorders.

How are dioxins formed?
Dioxins are formed when products containing carbon and chlorine are burned. Even very small amounts of chlorine can produce dioxins. Because burn barrels do not have the same strict controls as municipal incinerators, barrel burning releases significant amounts of dioxins. Trying to prevent dioxins from forming by separating out items high in chlorine content is not effective, since low levels of chlorine are present in most household trash.

How are we exposed to dioxins?
Dioxins accumulate in the food chain. Airborne dioxins can settle onto feed crops, which are then eaten by domestic meat and dairy animals. Dioxins so can settle on water or enter waterways through soil erosion. These dioxins accumulate in the fats of animals, and then in humans when we consume meat, fish, and dairy products.

DIOXIN IN THE FOOD CHAIN

Other Air Pollutants
Smoke from burn barrels contains hazardous pollutants such as particulate matter, sulfur dioxide, lead, mercury, and hexachlorobenzene. These pollutants can have immediate and long term health effects such as:

- Asthma, emphysema, and other respiratory illnesses.
- Nervous system, kidney, or liver damage.
- Reproductive or developmental disorders.

Not only are the people who burn trash exposed to these pollutants, but so are their families and neighbors. Children, the elderly, and those with preexisting respiratory conditions can be especially vulnerable.

Ash
The ash residue from backyard burning can contain toxic pollutants, such as mercury, lead, chromium, and arsenic, which can contaminate vegetables if scattered in gardens. Children can accidentally swallow toxic materials from dirt on their hands while playing near discarded ash.

What you can do

- Reduce. You can reduce the amount of waste you generate by using durable, long-lasting goods and avoiding disposable items; buying products in bulk; and looking for products with less packaging.

- Reuse. Reusing items is another way to reduce the amount of waste you generate. Repair, sell, or donate used or unwanted items or organize a neighborhood swap event. One person’s trash is another person’s treasure!

- Compost. Composting is a great way to dispose of yard trimmings and food scraps, while creating a natural, free fertilizer. Some tribes offer classes on how to compost, and some even provide composting bins at a reduced cost or show you how to build your own.

- Recycle. Contact your tribal government to find out about curbside pick-up of recyclable materials or drop-off locations.

- Properly Dispose of Waste. Don’t litter or dump illegally. Use a waste collection service or take your waste to a transfer station, convenience center, or local landfill. Check with your tribal officials to learn about collection service and drop-off sites in your community.

For more information on these steps you can take, visit EPA’s Municipal Solid Waste Website at <www.epa.gov/msw> and click on “Reduce, Reuse, and Recycle.”