



Engines Off!

Garfield County

Outline

- ▶ Idling background: Myths and facts
- ▶ Successes of CASEO Program
- ▶ Reduced Idling in Garfield County– 2013 Program report
- ▶ Plans for 2014
- ▶ Town of New Castle



Myths and Facts of Reduced Idling

- ▶ **Myth:** Pollution emitted from idling vehicles is insignificant to health and the environment.
- **Fact:** One minute of idling produces more carbon monoxide than the smoke from three packs of cigarettes.
- **Fact:** The toxic air pollutants emitted from idling can impair our lungs and heart.



Myths and Facts of Reduced Idling



- ▶ **Myth:** It wastes more fuel to restart my vehicle than it does to leave it idling.
- **Fact:** For cars with fuel injection (which includes almost all vehicles built since the late 1980s), idling for even 10 seconds uses more fuel than restarting the engine.

Myths and Facts of Reduced Idling

- ▶ **Myth:** Idling is good for my engine
 - **Fact:** An idling engine is not operating at its peak temperature, which means that fuel does not undergo complete combustion.



Myths and Facts of Reduced Idling

- ▶ **Myth:** Shutting of and restarting my vehicle is hard on the engine.
- **Fact:** Again, Ford Motor Company recommends turning the engine off, even for stops of 30 seconds, to save fuel, money, and air quality.



Myths and Facts of Reduced Idling

- ▶ **Myth:** I need to let my vehicle warm up for awhile on cold days, because it is better for the engine and increases visibility of my windshield
 - **Fact:** The best way to warm up your vehicle is to drive it!
 - **Fact:** Ice scrapers alone are effective in many cases

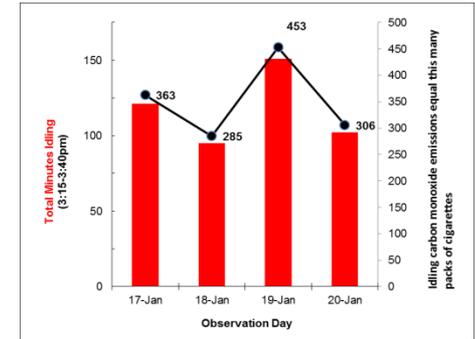


Build on success of CASEO Program

7-Step Implementation Plan:

- ▶ Measure Current Conditions
- ▶ Communicate the Problem
- ▶ Provide Information
- ▶ Obtain Commitments
- ▶ Remind Drivers
- ▶ Measure Success
- ▶ Get Feedback

CASEO Observation Data Sheet									
Your Name: <u>Wendy L. Kelly</u>		Zone: <u>3</u>							
School Name: <u>DAWNBIRD</u>		Date: <u>3-15-12</u>		Time: <u>2:45-3:30</u>					
Observation Time									
Day of the Week		Monday	Tuesday	Wednesday	Thursday	Friday			
Weather		Partly cloudy/hazy		Cloudy		Precipitating		Windy	
Temperature		Mid		Cool		Cold		Extreme Temp: <u>LC1</u>	
Obs #	Vehicle Color (Y/N)	Vehicle Description (Do NOT record license #)	Arrival Time	Departure Time	Idled 1/2h	Notes			
1	C	Yan Jeep	2:49	3:10	Y	(N)			
2	C	Red Cam	2:52	3:20	Y	(N)			
3	C	White van	3:00	3:17	Y	(N)	idled side @ 3:05		
4	C	Gold Truck	2:56	3:21	Y	(N)			
5	C	Black Nissan	2:59	3:22	(N)	(N)	Should use @ 3:15		
6	C	Black Jeep	2:56	3:19	Y	(N)			
7	C	Black Cam	2:56	3:20	Y	(N)			
8	C	Green Cam	3:01	3:19	Y	(N)			
9	C	Red Cam	3:02	3:17	Y	(N)			
10	C	White Truck	3:03	3:23	Y	(N)			
11	C	Blue Truck	3:04	3:19	(N)	(N)			
12	C	White Cam	3:06	3:22	(N)	(N)			
13	C	Black Honda	3:06	3:16	(N)	(N)			
14	C	Blue Dodge	3:09	3:22	Y	(N)			
15	C	White van	3:12	3:20	(N)	(N)			
16	C	Red Ford	3:21	3:25	(N)	(N)			

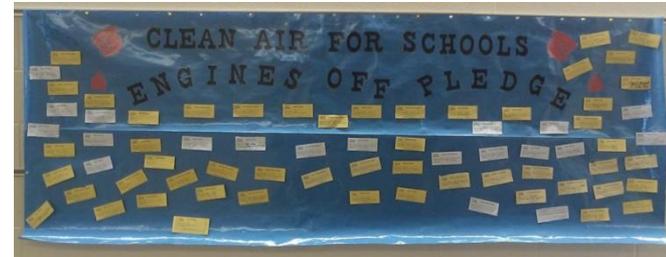


Step 1: Students observe and record idling vehicles after school.

Step 2: Observations are tallied and sent home to parents via a letter from the principal.



Step 3: Signage installed at schools. Students hand-out brochures at conferences & other school events.



Step 4: Pledge Drive. Parents pledge to their children not to idle at school.



Step 5: Students hand out key chains to drivers at their school to help them remember not to idle.



Step 6: Students collect another round of observations in order to measure project results.

Step 7: Students survey parents about CASEO to see what they did/ did not like about program.

CASEO Program Schools

▶ 2011–2012

- Catherine Senior Elementary (RE–2)
- St. Johns Elementary (RE–16)
- Glenwood Springs Elementary (RFSD)

▶ 2012–2013

- Bea Underwood Elementary (RE–16)
- Riverside Middle School (RE–2)
- Crystal River Elementary (RFSD)

▶ 2013–2014

- Sopris Elementary (RFSD)
- Rifle Middle School (RE–2)

Fleet Vehicles Reduced Idling Policy

- ▶ “It is the policy of the Town of New Castle that drivers of New Castle fleet vehicles turn off vehicle engines (not idle) when a vehicle will be stopped for more than **30 seconds**, except when in traffic. This policy applies, but is not limited, to the following situations:
 - When loading or unloading goods or personnel
 - When stopped for road construction
 - When waiting at a drive-through window
 - When stopped and waiting for any reason (except in traffic)”

Exemptions

- ▶ To provide for the safety of vehicle occupants, such as in cases of extreme hot or cold conditions
 - ▶ To operate lift equipment or other machinery
 - ▶ When stopped in traffic
 - ▶ When specific emergency, traffic, safety, or other situations arise
 - ▶ For diesel trucks
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Reduced Idling for Fleet Vehicles– Outreach

- ▶ Presentations to staff
- ▶ Pledges
- ▶ Reminders



Reduced Idling Pledge



Reduced Idling Pledge:

I pledge to help improve air quality by not idling unnecessarily:

- In Garfield County fleet vehicles
- In my personal vehicle



Signature _____

Department _____ Date _____

Measures of Success

- ▶ Effective measures:
 - Number of pledge cards signed
 - Reduction in fuel use (?)
- ▶ Ineffective measures for this program:
 - Idling observations: Different from CASEO

Future goals (from 2013)

- ▶ Incorporate reduced idling policy and education into a big-picture plan for vehicle efficiency in the county
 - Alternative Fuels
- ▶ Serve as a model
 - Other public fleets
 - Industrial Fleets



Reduced Idling in 2014

- ▶ Received another \$5,000 grant from CDOT
- ▶ Other Public Fleets– Partnership with Garfield Clean Energy Collaborative (GCEC)
 - Passed resolution in December 2013
 - Outreach to municipal fleets starting this month
 - New Castle has already adopted policy
 - Looking for “champions” within other organizations
- ▶ Follow-up with Garfield County Employees
 - Reminder email
 - Posting of signed pledge cards

Town of New Castle

- ▶ Education and outreach phase
 - Presentations to individual staff departments
 - Installation of signs and other reminders
 - Signing of pledge cards
 - Display of pledge cards (?)

Questions or Comments?

