



Salinas Police Department
&
Salinas Fire Department

2014 Fireworks Report
And
Recommendations

Changes Implemented in 2014

- 5 large signboards placed within the City
- Educational materials started earlier
- Safety Materials Info placed on City Website
- Significant media coverage: Californian, KSBW
- 2 large storage containers and evidence procedures implemented
- Community meetings held on Fireworks safety

Results for 2014

- Call volume slightly increased for SPD/SFD
- Violent night: 1 homicide, several significant traffic incidents, 5 fire incidents related to fireworks
- 13 citations were issued
- \$16,250 in fines
- 1,778 pounds of illegal fireworks confiscated
- SPD/SFD enforcement team: 3 Officers/2 Inspectors-format for future enforcements

Continued Challenges in 2014

- SPD Staffing: Authorized-155 Actual-122, >22%
- SFD Staffing: Authorized-97, Actual 65, >33%
- Non-compliance with the block party permit process
- SSF fireworks make identifying illegal ones difficult
- Smoke, fallout and residue are toxic materials
- Need to enhance the administrative citation process
- Need to enhance media coverage; Facebook, Twitter
- Need additional safety personnel; police and fire

Fireworks Toxicity

<u>Toxic Element</u>	<u>Fireworks Usage</u>	<u>Toxic Effect of Fallout Dust & Fumes</u>
Aluminum	brilliant whites	Contact dermatitis, bioaccumulation
Antimony sulfide	glitter effects	Toxic smoke, possible carcinogen
Arsenic compounds	Used as colorants. Sadly still out there.	Toxic ash can cause lung cancer, skin irritation and wart formation.
Barium Nitrate	glittering greens	Poisonous. Fumes can irritate respiratory tract. Possible radioactive fallout.
Copper compounds	blues	Polychlorinated dioxins and dibenzofurans. Can bio accumulate. Cancer risk.
Hexachlorobenzene (HCB)	Use was supposed to be banned globally.	Persistent environmental toxin. Is a carcinogen, mutagen and a reproductive hazard .
Lead Dioxide / Nitrate / Chloride	oxidizer	Bioaccumulation, developmental danger for kids & unborn babes, may remain airborne for days, poisonous to plants & animals
Lithium compounds	blazing reds	Toxic and irritating fumes when burned
Mercury (Mercurous chloride)	chlorine donor	Toxic heavy metal. Can bioaccumulate.
Nitric oxide	fireworks byproduct	Toxic by inhalation. Is a free radical
Nitrogen dioxide	fireworks byproduct	Highly toxic by inhalation. SIDS risk .
Ozone	fireworks byproduct	Greenhouse gas that attacks & irritates lungs
Perchlorate - Ammonium & Potassium	propellant / oxidizer	Can contaminate ground & surface waters, can cause thyroid problems in humans & animals
Potassium Nitrate	in black powder	Toxic dusts, carcinogenic sulfur-coal compounds
Strontium compounds	blazing reds	Can replace calcium in body. Strontium chloride is slightly toxic.
Sulfur Dioxide	gaseous byproduct of sulfur combustion	Acid rain from sulphuric acid affects water sources, vegetation & causes property damage. SIDS risk .

Effects of Fireworks Legal/Illegal

- Fallout and residue imbedded in our plant life, soil and water
- Illegal Fireworks are made in countries lacking safety/environmental standards
- Safe use is not guaranteed.....
- San Jose and Oakland incidents.....
- Alcohol prevalent in most incidents with injuries

Staff Recommendations

- A gradual phase-out of the sale of Safe and Sane Fireworks (SSF) over the next two (2) fiscal years to end in 2016.
- A review of the block party ordinance to include increased outreach to stakeholders, fines and Staff time reimbursement for non-compliance.
- Increase the SSF Surcharge from seven percent (7%) to ten percent (10%) to cover additional costs for enforcement and a proposed community fireworks show.

A faded Malinas Fire Department logo is centered in the background. It features a Maltese cross with a central sunburst and a banner at the bottom that reads "EST. 1874". The text "MALINAS FIRE DEPARTMENT" is visible around the perimeter of the cross.

QUESTIONS/COMMENTS???