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NEWSFLASH

Radiation Found In San Francisco, CA Tap Water — Rainwater Radiation 18,100% Above Drinking Water Limit

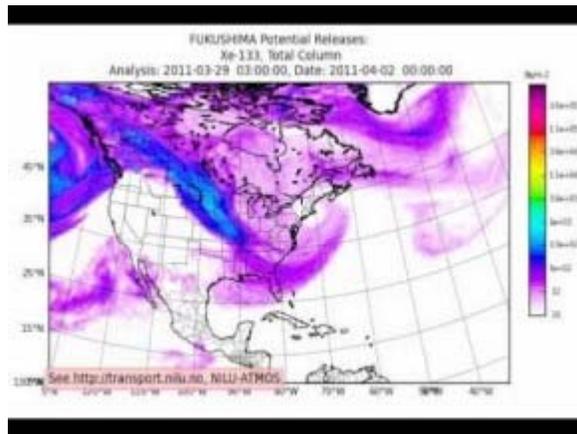
Ron Paul accuses the CIA, Bush sr, and the democrats of drug

Saturday, 02 April 2011 | Alexander Higgins



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Despite countless reassurances that no harmful levels of radiation from the Japan nuclear fallout would hit the US from the EPA, the University of Berkley in California is now reporting that rainwater in San Francisco water has now been detected at levels 18,100% above federal drinking water standards.

Again, with just about all other news of the radiation hitting the US, the news is once again reported to the public over a week after it was first detected.

For background information see:

[Japan Nuclear Fallout Radiation In US Rainwater 3300% Above Drinking Water Limits](#)

[Breaking News Flash: Multiple states across the US detect Japan Nuclear Radiation in the Rainwater.](#)

[Radiation Detected In US Milk](#)

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Radiation In Japan Fish Bio-accumulates For 30 Years

Scientists Warn Japan Nuclear Radioactive Fallout Now At Chernobyl Levels

Breaking News From [Energy News](#):

Radioactive Iodine-131 in rainwater sample near San Francisco was 18,100% above federal drinking water standard

March 31st, 2011 at 06:33 PM

[UCB Rain Water Sampling Results](#), University of California, Berkeley, Department of Nuclear Engineering:

Iodine-131 level in rainwater sample taken on the roof of Etcheverry Hall on UC Berkeley campus, March 23, 2011 from 9:06-18:00 PDT

20.1 Becquerel per liter (Bq/L) = 543 Picocuries per liter (pCi/L)

Conversion calculator [here](#).

The federal drinking water standard for Iodine-131 is 3 pCi/L. ([Source](#))

UCB Rain Water Sampling Results [here](#).

[Fluke Radiatic Safety](#)

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FlukeBiomedical.co

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Real-time track targets prostate cancer with reduced side effects.
www.HitTheTumor.

[Rain Water Harvesting](#)

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www.rainharvesting

[Detox Radiatic Naturally](#)

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| | | Water Vol. (L) | I131 | I132 | Cs134 | Cs137 | Te132 | Be7* |
|------------|------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Start | End | Liters | Bq/L (liters**) |
| 3/17 18:00 | 3/18 12:00 | 4.425 | 4.65 (581) | 0.62 (432803) | 0.21 (11555) | 0.26 (10467) | 0.62 (39106) | 1.12 (1.45E6) |
| 3/18 13:00 | 3/18 20:30 | 5 | 5.87 (460) | 0.46 (581296) | 0.12 (20318) | 0.13 (20379) | 0.38 (63386) | 1.42 (1.14E6) |
| 3/18 20:40 | 3/19 10:00 | 5 | 4.02 (672) | 0.37 (739254) | 0.09 (27109) | 0.14 (19864) | 0.25 (95854) | 1.65 (9.85E5) |
| 3/19 10:15 | 3/19 21:45 | 5 | 6.12 (441) | 0.26 (1.04E6) | 0.24 (10194) | 0.26 (10322) | 0.34 (71545) | 0.91 (1.78E6) |
| 3/19 21:45 | 3/20 11:30 | 5 | 7.98 (339) | 0.59 (455150) | 0.27 (8880) | 0.20 (13413) | 0.54 (44696) | 0.83 (1.95E6) |
| 3/20 11:30 | 3/20 18:45 | 2.826 | 4.49 (602) | 0.29 (933729) | 0.20 (12332) | 0.20 (13598) | 0.27 (91482) | 2.77 (5.84E5) |
| 3/21 19:00 | 3/22 07:45 | 1.916 | 8.35 (324) | 0.17 (1.58E6) | 0.12 (19528) | 0.10 (25767) | 0.28 (85352) | 2.69 (6.0E5) |
| 3/22 17:00 | 3/23 09:06 | 4 | 4.65 (580) | 0.15 (1.85E6) | 0.06 (37410) | 0.088 (30567) | 0.15 (164879) | 1.91 (8.47E5) |
| 3/23 09:06 | 3/23 18:00 | 3 | 20.1 (134) | 0.94 (287410) | 0.39 (6166) | 0.49 (5554) | 0.49 (49728) | 3.11 (5.2E5) |
| 3/23 18:00 | 3/24 11:02 | 3.5 | 7.63 (354) | 0.51 (525614) | 0.56 (4330) | 0.59 (4571) | 0.47 (51498) | 0.82 (1.95E6) |
| 3/24 11:02 | 3/24 18:10 | 5 | 3.23 (836) | 0.17 (1.6E6) | 0.31 (7753) | 0.22 (12105) | 0.19 (125865) | 1.44 (1.1E6) |
| 3/24 18:10 | 3/25 11:23 | 5 | 3.12 (863) | 0.32 (847764) | 0.51 (4736) | 0.52 (5159) | 0.27 (91391) | 1.42 (1.1E6) |
| 3/25 11:23 | 3/26 10:15 | 5 | 1.52 (1782) | 0.10 (2.58E6) | 0.14 (17283) | 0.16 (17163) | 0.27 (91391) | 0.07 (2.26E7) |
| 3/26 10:15 | 3/27 8:51 | 2 | 3.71 (728) | 0.15 (1.85E6) | 0.24 (10066) | 0.26 (10218) | 0.38 (64707) | 1.71 (947984) |
| 3/27 8:51 | 3/28 14:10 | 2 | 1.56 (1734) | 0.10 (2.60E6) | 0.36 (6800) | 0.46 (4847) | 0.08 (300651) | 1.73 (935179) |

Radiation in San Francisco 18,100 Times Above Drinking Water Limits

See also: [Comparisons with X-rays and CT scans “meaningless” — Inhaling particles increases radiation exposure by “a factor of a trillion” says expert](#)

Read more:

[EPA: Radioactive Iodine-131 levels in PA & MA rainwater “exceed maximum contaminant level permitted in drinking water”](#)

[Radioactive Iodine-131 in Pennsylvania rainwater sample is 3300% above federal drinking water standard](#)

[Radioactive particles from Fukushima found in Massachusetts rain — “25 times less risky than it would need to be in order to cause any health concerns” \(VIDEOS\)](#)

[Don’t drink the rainwater says State of Virginia \(VIDEO\)](#)

[Highest yet: 3,355 times legal limit of radioactive iodine-131 found in seawater — Reactor cores may have been continuously leaking into Pacific](#)

NEWSLETTE

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Nuclear Radiation Found In Drinking Water and Milk

Results Log

3/31 (8:00pm): **Our first preliminary tap water samples have been analyzed. The only isotope we have detected besides background is I-131, at low significance: 0.024 ± 0.014 Becquerels per liter.** This level is much lower than our [rain water measurements](#) by a factor of approximately 300, **and lower than our milk measurement by a factor of 30.** We will be continuing measurements of tap water to confirm this result; the level is so low it is approaching the threshold of detection.

Quick updates on our other samples: [Rainwater results](#) have been updated to be current as of the last rainfall on Saturday 3/26. [Air filtration](#) will be posted this evening to be current to 3/30. A sample of milk from before Fukushima has been added to the [milk sampling results](#).

One additional note: There was some confusion about the dating of the milk data. Yesterday we listed the date incorrectly as “Purchased on” but the date was in fact the “Best By” date. The date itself was wrong — the sample listed yesterday as 3/25 was actually 4/4. The background sample posted today was 3/25. Apologies for any confusion.

3/30 (5:30pm): **Our milk sampling results are now posted. The only isotope we have detected besides background is I-131, at 0.70 Becquerels per liter.** This level is lower than our [rain water measurements](#) by a factor of approximately 10, while higher than our [creek water measurements](#) by a factor of 10. One would have to drink roughly 3,800 liters of milk to receive a radiation dose equivalent to a round-trip cross-country flight.

3/29 (11:35am): Our [air results](#) and [rain water results](#) have both been updated. The isotope amounts in both have leveled out, which means that we might not be observing a downward trend at this point. We are continuing these tests so that we can observe the eventual expected decline in activities.

...

3/27 (2:00pm): **Strawberry Creek run off results posted. We do observe all signatures in the run off creek water, but the dilution is from ~2% for I-131 to 15% for Cs137.** However, Cs137 and Te132 are just below minimum detectability for our system and the real dilution is most likely closer to 2-5%. Reservoir and tap water sampling begins next week. **These activities are factors of 10 to 50 below rain water results.**

3/26 (6:20pm): Rain water sample results posted for 3/24 – 3/25. **I-131 and Te-132 activities are lower than previously observed** (3.12 and 0.27 Bq/L resp.) while Cs137 remains near the high point at ~0.5 Bq/L.

3/26 (10:45am): **Air sampling results** posted for 3/22 – 3/24. **We have observed correlated increasing trends in Cs-137 and I-131 with the water sampling results. Te-132 seems to have increased more in air than in the rain water.** Full understanding of the these trends may not be understood for some time until we start to combine this data with other information. Levels remain extremely low, but we are maintaining a close watch on these trends.

3/26 (9:45am): **Rain water results** posted for the past few days. Delay was due to testing of new data analysis chain script that will make posting results more efficient. **We have observed a sharp up-tick in Cs-137 levels from around 0.2 Bg/L to 0.55 Bq/L. I-131 had a sharp rise on 3/23 of I-131 concentration from 6 Bq/L to 20 Bq/L. I-131 levels returned to 6 Bq/L on 3/24. Reasons for the I-131 spike is still unknown. Te-132 and I-132 levels remain relatively constant.**

3/24 (2:40pm): **Our new air sampling results are now posted.** These results should be considered preliminary because we are trying to learn more about the efficiency of our 0.3 micron HEPA filters for capturing the particles of interest (we have assumed 100% efficiency for our current calculations). We thank everyone for their patience as

we worked to ensure we had the correct calibration for these measurements. According to our measurements, the exposure to the isotope is very low — at the highest levels we measured, breathing the rain for 2,000 years would increase one's radiation dose by the same amount as that received by taking a cross-country airplane flight.

3:05pm): Rain water sampling results from the evening of 3/19 are now posted. We continue to observe elevated levels of isotopes originating from the Japanese reactors. Some trends in activity are starting to emerge, such as **a slow increase in the**

Invalid application ID: **activity of I131, and a decrease and then increase in the activity of Te132. Cs137 activity may be constant.** We will continue to monitor these trends. Our measured activity levels remain extremely low and exposure to the public is insignificant.

...

3/20 (4:15pm): **Rain water results show trace levels of radioactive iodine (I131, I132), cesium (Cs134, Cs137), and tellurium (Te132).** The amounts show that **the activity we are observing originated from any of the three operating reactors** that was shut down since I-131 and Te132 half-lives are less than 10 days and the spent fuel from unit 4 had not operated for > 130 days. The calculated exposure to the public is so low that the consuming of ~500 liters of this water would only increase dose by the same amount received by taking a cross-country airplane flight.

...

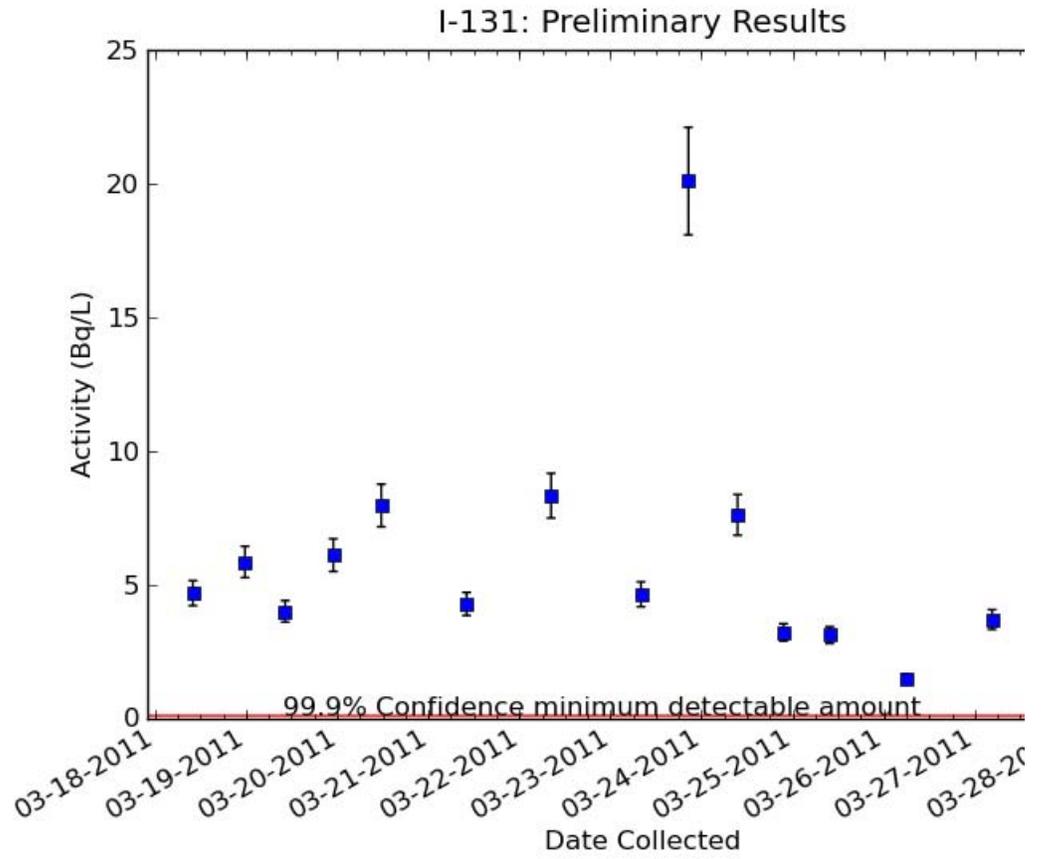
3/19 (10:34am): Rain fall from 3/17-2pm to 3/18-12:15pm. **Preliminary results show trace amounts of radioactive iodine (I131, I132), cesium (Cs137, Cs134), and tellurium (Te132)** which are not naturally occurring elements and are assumed to originate from the Fukushima nuclear site. In context, we also see Be-7 (cosmogenically produced) and Pb-212 (radon daughter) which are naturally occurring isotopes that also show up normally in rain water. **Preliminary analysis show levels remain well below that which would cause health effects.** We are currently awaiting better calibration of our detector system to publish amounts.

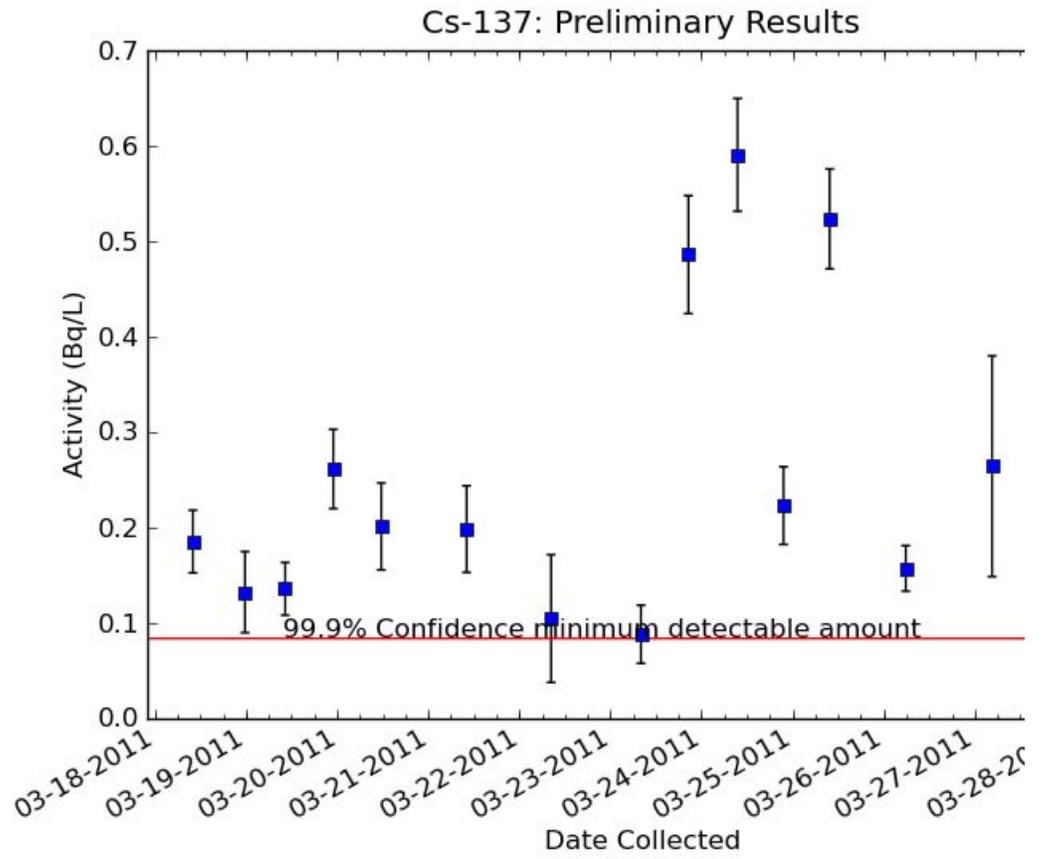
Results Of The First California Drinking Water Sample Tests Positive For Japan Nuclear Radiation

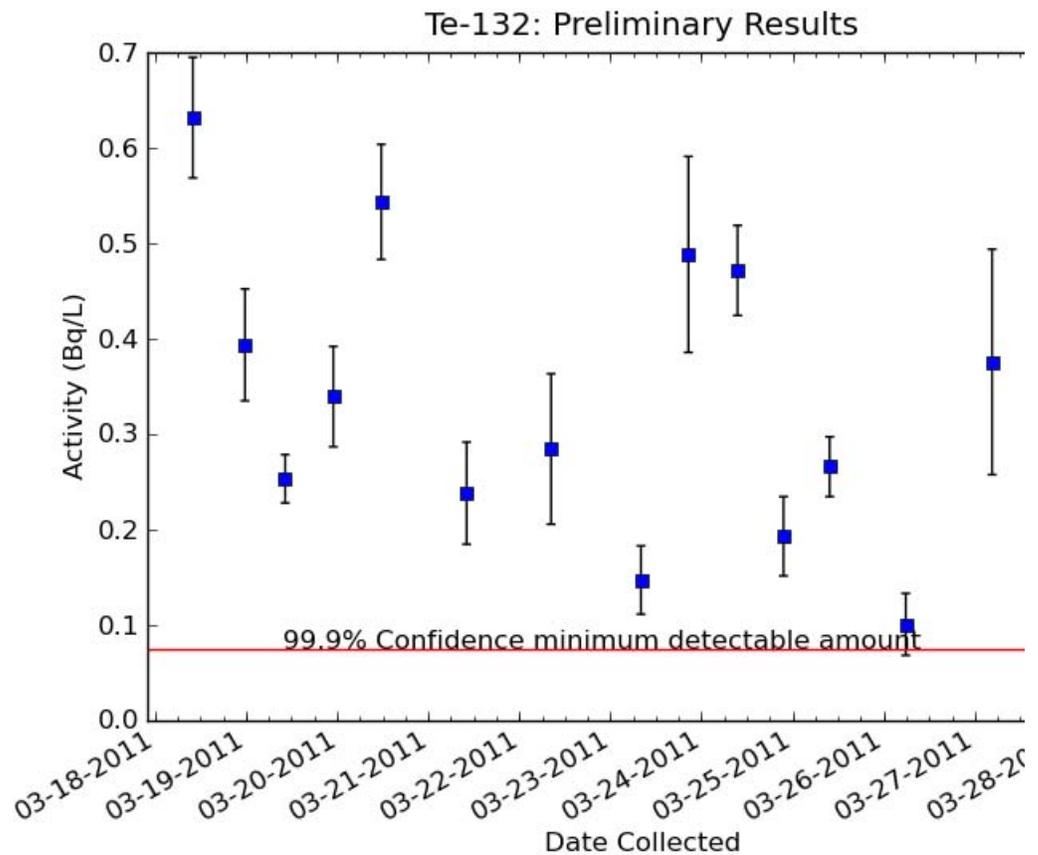
The tap water measurements are done with the same setup as the [Rainwater Collection Experiment](#).

| | I131 (Radioactive Iodine 131) | I132 | Cs134 | Cs137 | Te132 | Data |
|--|--|-----------------|-----------------|-----------------|-----------------|----------------------|
| Sample Date | Bq/L (liters**) | Bq/L (liters**) | Bq/L (liters**) | Bq/L (liters**) | Bq/L (liters**) | |
| <i>Estimated Minimum Detectable Activity (MDA)</i> | <i>0.012</i> | <i>0.022</i> | <i>0.018</i> | <i>0.022</i> | <i>0.012</i> | |
| 3/29/2011 7:54 | 0.024 ± 0.014 (110,000) | less than MDA | less than MDA | less than MDA | less than MDA | data |

Nuclear Fission Products Caesium and TE-132 Also Detected In Addition to Iodine







What the Corporate Media Refuses To Tell The Public

FORECAST: RADIOACTIVE PARTICLES CONCENTRATED OVER MIDWEST ON APRIL 1, 2:

Update

Let me just set the record straight here as I am being attacked for posting lies, in several places where I can't even respond. So let me set the record straight here.

First, the lie is being spread I purposefully lied about the federal drinking water limits when in fact others are misrepresenting the food limit as the drinking water limit.

Second, references are constantly being made to comparisons to x-ray or plane trip exposures. That doesn't change anything to being with there is still radiation in the tap water and the milk period. The comparison is also apples and oranges. There is a huge difference between internal exposures which pollute the

environment and bio-accumulate and non threatening radiation from a banana or even that of an x-ray.

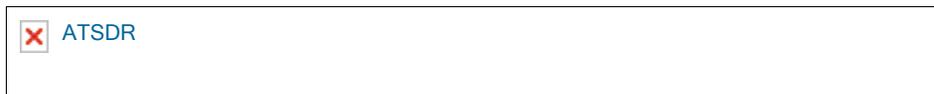
Finally, the half life of iodine 131 being 8 days is constantly used as an attack surface when in fact an 8 day half life doesn't mean iodine is harmless or disappears after 8 days. In fact it stays in the environment for months and has a biological half life of 8 days.

FarOut writes:

Cap, thanks for that link. I didn't realize that the safe limit given by Mr. Higgins was also a lie; he referenced some politician's press release which said it's 3Bq/liter when it's actually 170 Bq/liter.

NamasteMama: there's a real danger from too much radiation. There's also a real danger from panic-mongers who try to make money by getting everybody scared when there isn't a real danger. You have to check the actual rad levels (see <http://www.radiationnetwork.com/index.htm> and <http://www.blackcatsystems.com/RadMap/map.html>) read the article Cap referenced in his post and decide for yourself.

Farout, you have purposefully confused the FDA Food limit with the EPA drinking water limit. Kent even says in [his post](#) he is referencing FDA food standards and not EPA drinking water limits which both you and Kent blissfully ignore when mocking me.



| Agency | Media | Standard |
|--------------------------------------|---------------------------|--|
| U.S. Environmental Protection Agency | Drinking water* | 4 mrem/yr equivalent to 3 pCi/L (0.1 Bq/L) continuous exposure |
| | Air** | 2.1X10 ⁻¹³ Ci/m ³ |
| Food and Drug Administration | Food in commerce (derived | 170 Becquerels per kilogram (4,600 pCi/kg) |

| | | |
|---|--------------------------------------|--|
| | intervention level)*** | |
| NRC, DOE, OSHA, National Council on Radiation Protection and Measurement (NCRP), and International Commission on Radiological Protection (ICRP) | Annual occupational exposure limits† | 50 mSv (5 rem) for whole body dose 500 mSv (50 rem) for thyroid dose |

From **the actual regulations**:

(b) MCL for combined radium-226 and -228. The maximum contaminant level for **combined radium-226 and radium-228 is 5 pCi/L**. The combined radium-226 and radium-228 value is determined by

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6030, or go to: <http://www.archives.gov/federal-register/code-of->

Table A—Average Annual Concentrations Assumed To Produce: a Total Body

or Organ Dose of 4 mrem/yr

1. Radionuclide..... Critical organ.... pCi per liter
2. Tritium..... Total body..... 20,000
3. Strontium-90..... Bone Marrow..... 8

(e) MCL for uranium. The maximum contaminant level for uranium is 30 [mu]g/L.

This comment seems to be getting posted “anonymously” everywhere this article is being discussed:

From the UC Berkeley website mentioned in article-
 “For example, in the rain water we collected in 18 hours between March 17 and March 18 we observe an activity of the isotope of I-131 (Iodine-131) of 4.26 Bq/l. At this level, you would need to drink 632

liters of this rain water to obtain the same radiation effects you obtain on a round-trip flight between San Francisco and Washington D.C. Therefore, the increase in radiation levels in the rain water due to the events in Japan remain extremely small.”

Let point out that 632 liters refers to the amount detected in the tapwater. The amount detected in the rainwater is indeed 18,100% above the drinking water standards.

I'll spell it it plain and simple

20.1 Becquerel per liter (Bq/L) = 543 Picocuries per liter (pCi/L).

3 pCi/L. is the federal drinking water limit.

Finally, $3 \text{ pCi/L} \times 18,100\% = 543 \text{ (pCi/L)}$ which is the amount detected per liter in the 3 liters taken in the University of Berkeley rainwater sample on March 23.

And once again, references and comparisons to radiation in bananas, x-rays, ct scans and air flight are absolutely bogus. They are comparisons of apples to oranges. I repeat there are huge differences. Internal exposures and radioactive material polluting the environment and bio-accumulating in the food chain is much differential than non threatening radiation from a banana. Furthermore when someone throws around references like 1 hour of exposure is equivalent to 1/88th of an x-ray, you realize that means an x-ray every 88 hours right! The Reader's digest also reports that 1 in 300 women and 1 in 600 men who have undergone a single CT scan end up with cancer.

See also: Comparisons with X-rays and CT scans “meaningless” — Inhaling particles increases radiation exposure by “a factor of a trillion” says expert

Finally on the minimizing of the hazards of iodine because it's half life is only 8 DAYS – more government propaganda to trick the masses. The point emphasized by the propagandists is that Iodine loses its half of it's radioactivity in 8 days. This misleads people into believing radioactive iodine is no longer a threat after 8 days. In fact it remains in the environment for several months and has an overall half life inside the human body of 100 days.

From the EPA on iodine:



Iodine-129 has a half-life of 15.7 million years; iodine-131 has a half-life of about 8 days. Both emit beta particles upon radioactive decay.

Note: iodine-131 is what is in question here

How do iodine-129 and iodine-131 change in the environment?

Radioactive iodine can disperse rapidly in air and water, under the right conditions. However, it combines easily with organic materials in soil. This is known as 'organic fixation' and slows iodine's movement in the environment. Some soil minerals also attach to, or adsorb, iodine, which also slows its movement.

The long half-life of iodine-129, 15.7 million years, means that it remains in the environment. However, iodine-131's short half-life of 8 days means that it will decay away completely in the environment in a matter of months. Both decay with the emission of a beta particle, accompanied by weak gamma radiation.

So iodine stays in the environment for months...

HOW DO PEOPLE COME IN CONTACT WITH IODINE-129 AND IODINE-131?

Radioactive iodine can be inhaled as a gas or ingested in food or water. It dissolves in water so it moves easily from the atmosphere into humans and other living organisms. People are exposed to I-129 from the past testing of nuclear weapons, and I-131 from nuclear power plant emissions. Some industrial facilities also emit radioactive iodine to the environment, as well as medical institutions. Radioactive iodine is usually emitted as a gas, but may contaminate liquids or solid

materials as well. If a family member has been treated with I-131, you may have increased exposure to it through their body fluids.

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HOW DO IODINE-129 AND IODINE-131 GET INTO THE BODY?

Radioactive iodine can enter the body by ingestion or inhalation. It dissolves in water so it moves easily from the atmosphere into humans and other living organisms. For example, I-129 and -131 can settle on grass where cows can eat it and pass it to humans through their milk. It may settle on leafy vegetables and be ingested by humans. Iodine isotopes also concentrate in marine and freshwater fish, which people may then eat.

Also, doctors may give thyroid patients radioactive iodine, usually iodine-131, to treat or help diagnose certain thyroid problems. The tendency of iodine to collect in the thyroid makes it very useful for highlighting parts of its structure in diagnostic images.

[Exposure from Iodine 131](#) (Centers for Disease Control)

WHAT DO IODINE-129 AND IODINE-131 DO ONCE THEY GET INTO THE BODY?

When I-129 or I-131 is ingested, some of it concentrates in the thyroid gland. The rest passes from the body in urine.

Airborne I-129 and I-131 can be inhaled. In the lung, radioactive iodine is absorbed, passes into the blood stream, and collects in the thyroid. Any remaining iodine passes from the body with urine.

In the body, iodine has a [biological half-life](#) of about 100 days for the body as a whole. It has different biological half-lives for various organs: thyroid – 100 days, bone – 14 days, and kidney, spleen, and reproductive organs – 7 days.

To repeat that IN THE BODY IODINE HAS A HALF LIFE OF 100 DAYS.

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Health Effects of Iodine-129 and Iodine-131

HOW CAN IODINE-129 AND IODINE-131 AFFECT PEOPLE'S HEALTH?

Radioactive iodine can cause thyroid problems, and help diagnose and treat thyroid problems. Long-term (chronic) exposure to radioactive iodine can cause nodules, or cancer of the thyroid. However, once thyroid cancer occurs, treatment with high doses of I-131 may be used to treat it. Doctors also use lower doses of I-131 to treat overactive thyroids.

Low doses can reduce activity of the thyroid gland, lowering hormone production in the gland. Doctors must maintain the fine balance between the risks and benefits of using radioactive iodine. On one hand, this small, additional exposure may tip the balance in favor of cancer formation. On the other, this small additional exposure can restore health by slowing an overactive thyroid and improve health conditions.

Furthermore, no one is talking about how radioactive material bio-accumulates. The other, relatively more dangerous types of radioactive substances are being ignored entirely. Instead focus is placed on iodine because it is easy to mislead the public into believing there is not much risk because of the 8 day half life.

Alexander Higgins Blog

31

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COMMENTS



#1 **Earl** 2011-04-02 13:59

+3

Thanks for your efforts to make it plain and simple for those who are not scientists. We appreciate it. love ya, earl

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