

At worst, oil spewed already could fill 102 gyms

May 21 2010, By SETH BORENSTEIN and GREG BLUESTEIN ,
Associated Press Writers



A May 17, 2010 satellite image provided by NASA shows a large patch of oil visible near the site of the Deepwater oil spill, and a long ribbon of oil stretched far to the southeast. The National Oceanic and Atmospheric Administration said Wednesday that a small portion of the slick had entered the so-called loop current, a stream of fast moving water that circulates around the Gulf before bending around Florida and up the Atlantic coast. (AP Photo/NASA)

(AP) -- Drip by drip, day by day, the oil gushing into the Gulf of Mexico is adding up to mind-boggling numbers.

Using worst case scenarios calculated by scientists, a month's worth of

leaking [oil](#) could fill enough gallon milk jugs to stretch more than 11,300 miles. That's more than the distance from New York to Buenos Aires, Argentina, and back. That's just shy of 130 million gallons.

If the government's best case scenario is used - and only 5.25 million gallons have spilled - those milk jugs would cover a bit more than a roundtrip between New York and Washington. But the government is revising that number, with a team of scientists working around the clock to come up with a more realistic and likely higher figure.

Here's another way to think of just how much oil has gushed out since April 20: At worst, it's enough to fill 102 school gymnasiums to the ceiling with oil.

That's nothing compared to the vast expanse of the Gulf of Mexico, where there are 643 quadrillion gallons. Even under the worst case scenario, the Gulf has five billion drops of water for every drop of oil. And the mighty Mississippi River pours 3.3 million gallons of new water into Gulf every second.

Under the rosier scenario, little more than four gyms would be filled. That's how the National Oceanic and Atmospheric Administration visualizes oil spill volumes on one of its websites.

At worst, the amount of oil that has already spilled is a dozen times more than the Exxon Valdez disaster. At best, it's only half as bad. Realistically, it's probably somewhere in that huge middle in between.

No matter what, it already is way too much oil for the delicate parts of the Gulf ecosystem, said Darryl Felder, a biologist at the University of Louisiana Lafayette.

"A lot of this is diffused now in deep layers," said Felder, who is

coordinating a seven-volume scientific encyclopedia on the Gulf. "It's like it's under the rug. You can't see it on the surface, so it's kind of out of sight, out of mind. But it's not out of mind to most of the biologists who are concerned about its long-term effects."

There are many uncertainties about how much has spilled. It's not even clear if the leak began on April 20, when the rig exploded, or April 22 when the rig sank, or on April 24 when the Coast Guard first noticed two leaks.

Originally, BP and the federal government said 42,000 gallons were flowing per day. Then the number was upped to 210,000 and that's been the best case scenario, with calculations that the spill didn't start until April 24.

The best case scenario seems increasingly unlikely. On Thursday, BP acknowledged more oil than that is pouring into the Gulf. The company said its makeshift tube put in place to suck up the leak is siphoning 210,000 gallons a day into a barge - the full amount of oil the company said was leaking. Yet, there's still lots of oil flowing out into the Gulf that can now be seen live on a webcam.

"Anyone can look at that and determine that even though it can't be metered or measured, it's significantly less than it was," said company spokesman Steve Rinehart. "That suggests pretty clearly that taking 5,000 barrels a day (210,000 gallons) out of that stream puts a real dent in it."

Federal officials acknowledge their 210,000 gallons-a-day figure needs to be revised. NOAA director Jane Lubchenco said the old estimate was based on a long-held international scientific formula based on surface slick observations. But the way this oil slick changed makes that calculation no longer useful, she said.

The worst case scenario is based on the upper end of broad estimates from several scientists for the daily flow rate of the leak based on video observation - somewhere between 840,000 gallons a day and 4.2 million gallons a day.

Some experts say the 4.2 million gallon rate is probably way too high, just like the government figures are way too low. That's because somewhere around 1.2 million to 1.6 million gallons a day is all that can realistically be expected from that type of well if it were working right, they said.

Ian McDonald, a Florida State University oceanographer and expert tracking the spill, said both estimates were wrong, but the government figure is especially wrong.

"We don't know how bad this is," McDonald said Thursday. "One of the problems is it's going to be very hard to know."

McDonald said the spill's surface slick is now more than 14,600 square miles, larger than the states of Maryland and Delaware combined.

©2010 The Associated Press. All rights reserved. This material may not be published, broadcast, rewritten or redistributed.

Citation: At worst, oil spewed already could fill 102 gyms (2010, May 21) retrieved 24 April 2024 from <https://phys.org/news/2010-05-worst-oil-spewed-gyms.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.