PORTABLE SANITATION’S IMPACT ON PRODUCTIVITY

According to the Federal Reserve Bank of New York there are 5.5 million construction workers in the United States that make an average hourly wage of $24.00. Imagine what the economic impact would be if we didn’t have a portable restroom on a construction site. Each construction worker would either have to leave the construction site at least once a day or defecate on site with no toilet. If they were able to leave the site, defecate and return, the cost to productivity would be enormous. How enormous?

\[
\begin{align*}
5,500,000 & \quad \text{Construction Workers} \\
\times $24.00 & \quad \text{Hourly Wage} \\
$132,000,000 & \quad \text{Productivity Lost Per Hour} \\
\times 33\% & \quad 20 \text{ Minutes or 1/3 of an Hour for Round Trip to Offsite Toilet} \\
$43,560,000 & \quad \text{Lost Productivity per Day by not Having a Portable Toilet on a Job Site} \\
\times 240 & \quad \text{Working Days per Year} \\
$10,454,400,000 & \quad \text{Estimated Yearly Cost of Not Having Portable Restrooms on Jobsites}
\end{align*}
\]

PORTABLE SANITATION’S IMPACT ON FUEL USE at CONSTRUCTION SITES

Now suppose these same construction workers jump in their pick up trucks and take two other crew members to the local fast food restaurant or convenience store to relieve themselves once a day. The pickup averages 14 miles per gallon, diesel fuel costs approximately $3.00 a gallon, and the average round trip is three miles. The cost for fuel that can be attributed lack of portable restrooms on construction sites would be:

\[
\begin{align*}
5,500,000 & \quad \text{Construction Workers} \\
\text{divided by} & \quad 3 \text{ Workers Leaving Sites In Each Vehicle} \\
1,833,333 & \quad \text{Daily Trips to a Nearby Restroom Facility} \\
\times 3 & \quad \text{Miles Round Trip to a Restroom Facility} \\
5,500,000 & \quad \text{Miles Traveled to Access Off Site Sanitation} \\
$3.00 & \quad \text{Average Cost Per Gallon of Diesel Fuel} \\
$1,178,571 & \quad \text{Daily Cost of Diesel Fuel for 5.5 Million Workers @ 14 miles/gallon} \\
\times 240 & \quad \text{Working Days per Year} \\
$282,857,130 & \quad \text{Yearly Cost of Diesel Fuel}
\end{align*}
\]