

So in the cutscene after the Box Factory boss fight, Red Ball's asskicking results in a bunch of factories being destroyed.



So let's calculate this thing! Before you ask this, the height of the factories is what it's shown here, here's a piece of proof to show this is what the factories look like...



Now let's measure the weight of one box factory. With pixel measurements we can get a good picture of how wide the factory is.



Red Ball = 5 pixels

Factory (minus chimney because it's unimportant) = 38 pixels wide

$$38/5 = 7.6$$

7' 5.24 x 7.6 = 56' 6.224 feet wide! Since we can't see what the length of the Factory is, a safe assumption is that it is the same as the width.

Now it's very hard to determine what material the Factory is but most Factories are made of steel so let's go with that.

Material

Steel

Quantity

- 1 +

Bar Size:

Width

678.224 in

Length

678.224 in

Calculate

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Total Weight:

88,476,042 pounds

40,132,058 kilograms

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Now multiplying this by 11 since there are 11 Factories in the scene this would make the overall weight of all the Factories 973,236,462 pounds! The weight alone would be worth 0.31 Tons of TNT! However what needs to be put in mind is the fact that there is NOTHING LEFT of the Factories, so lets calc that.

In order to calculate vaporization feats we need to look at a specific formula that will solve this problem,  $E = MCT$ . We already have M being Mass which is 973,236,462 pounds or so for this calculation 441,452,633.36899 kg, so let's get C and T!

C is the Specific Heat Capacity and the Specific Heat Capacity of Steel is 460 J/kg\*K!

T is the Change in Temperature, now we can't determine what the initial temperature is, so for safety it will be the average room temperature of 21 C. As for the final temperature, the melting point is 962 C! The Change in Temperature is 941 C!

$$E = (441,452,633.36899) \times (460) \times (941)$$

$$E = 191,087,190,000,000 \text{ Joules or } 45670.94 \text{ Tons of TNT!}$$