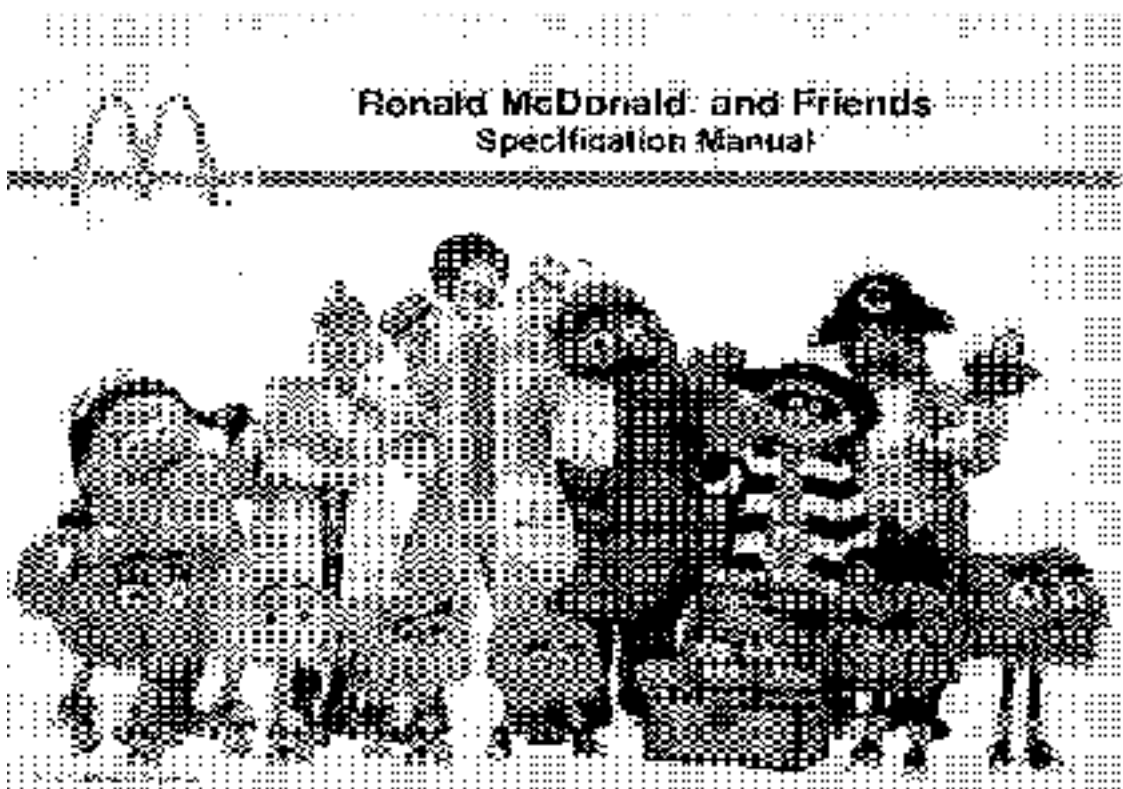


MacDonaldLand Nutrition
Information
Serving Size: One Mascot

A Scholarly Zine About Eating Grimace
(With Physics)



Ronald McDonald (Canonically Willard Scott [1])

Willard Scott Height: 6'3" [2]
AVERAGE BMI [3] = 25 = 200LBS

GOOGLE HOW MUCH MEAT FROM HUMAN
[4] = 75LBS
GOOGLE GROUND BEEF NUTRITION
FACTS [5] = 975CAL/LB 68G/FAT
85G/PROTEIN

X 75LB =



Nutrition Facts

1 servings per container

Serving size 1 Clown (90718.5g)

Amount Per Serving

Calories **73120**

% Daily Value*

Total Fat 5100g **6538%**

Saturated Fat 0g **0%**

Trans Fat 0g

Sodium 0mg **0%**

Total Carbohydrate 0g **0%**

Dietary Fiber 0g **0%**

Total Sugars 0g

Includes 0g Added Sugars **0%**

Protein 6375g **12750%**

Not a significant source of cholesterol, vitamin D, calcium, iron, and potassium

* The % Daily Value (DV) tells you how much a nutrient in a serving of food contributes to a daily diet. 2,000 calories a day is used for general nutrition advice.

Mayor McCheese

The mayor of McDonaldland is somewhat shorter than Ronald at the shoulders. Perhaps the body of a 5'5" human. So we scale down Ronald from 75 to 65 inches.

**Cubically, a reduction in body volume of 35%.
.65 x 75 ~ = 50lbs of meat.**

The mayor's head, meanwhile, is a classic cheeseburger, a sandwich that is normally 3.5 inches wide [6].

Traditionally, his head is approximately as wide as his waist is high.

Using our 5'5" number from before, we can assume a waist height of approximately 2.5 feet, or 30 inches. His burgerhead is thus approximately 8:1 scale vs. a normal burger, with $\sim 8^3 = 512$ times the volume.

512 CHBURG [7]

50# MEAT =

202,350 cal

10,056 g fat

Ibid, except Big Mac [8]

**BIG MAC DIAMETER =
4.4 INCHES [9]**

*Headburgers = 317
[6.8181^3]*



340630cal + 17434 g fat + 317g transfat

All Cops Are Burgers

Officer Big Mac

I mean, she's just a chicken. This one is googleable without even getting on a list.

Birdie The Early Bird

It is surprisingly hard to find the average standing height of a living Plymouth Rock chicken, a standard roaster breed. But various chicken height charts imply that 16" is a reasonable guess. And a roaster chicken gives about a 78% yield in terms of meat.

One complication here is that skin scales with the square of the size of the bird, and that's where a lot of the fat is. So I'm going to reduce the overall fat content.

Birdie stands about 4 feet tall. So Birdie's carcass weight, plucked and dressed, can be estimated at about 135lbs, but despite having the meat of 27 birds, she only has the skin of 9. Sorry, extra crispy lovers.

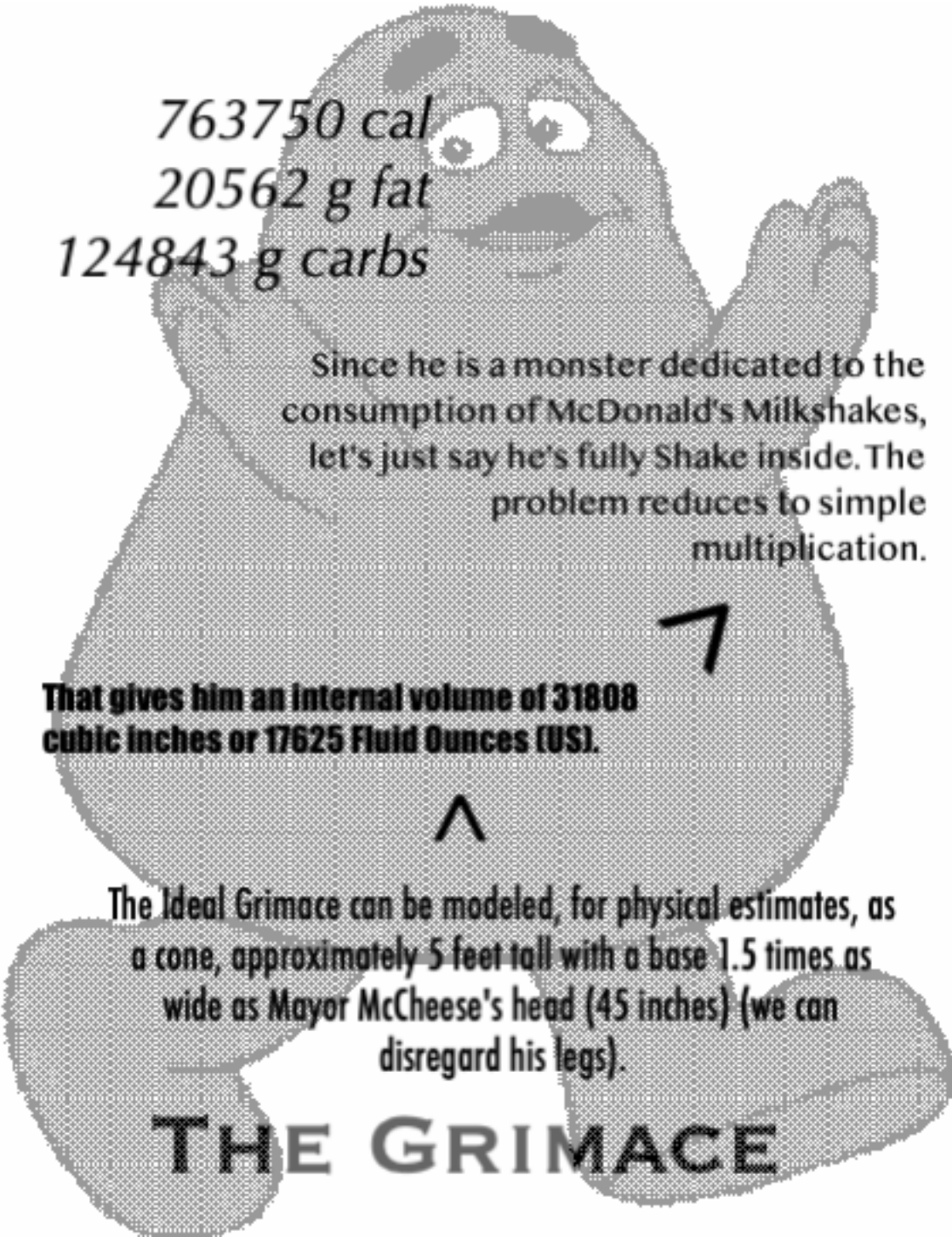
148,500 cal

8360 g fat

11286 g protein

roaster dressed weight = 5# [10]
roaster meat yield = 78% [11]





763750 cal
20562 g fat
124843 g carbs

Since he is a monster dedicated to the consumption of McDonald's Milkshakes, let's just say he's fully Shake inside. The problem reduces to simple multiplication.

That gives him an internal volume of 31808 cubic inches or 17625 Fluid Ounces (US).

The Ideal Grimace can be modeled, for physical estimates, as a cone, approximately 5 feet tall with a base 1.5 times as wide as Mayor McCheese's head (45 inches) (we can disregard his legs).

THE GRIMACE

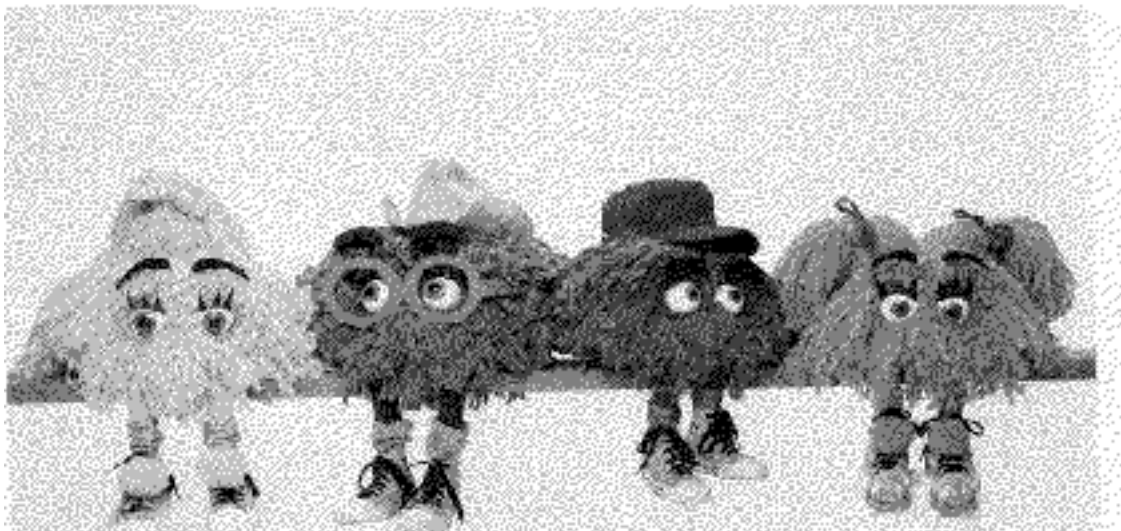
Similarly to Grimace,
we can model a Fry Kid
as a sphere of potato,
approximately 18" in
diameter.

47 kg of
potato has the
following nutr.
value:

41,000 cal
1894 g carbs

Assume their density
is the same as that of
water (close enough
for this paper), so
they contain about 47
liters of potato, or
47kg.

Fry Kids



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