

DIET AND HEALTH

DIET AND HEALTH

WITH KEY TO THE CALORIES

ΒY

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HODDER AND STOUGHTON LIMITED LONDON

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MADE AND PRINTED IN GREAT BRITAIN, 1924. Richard Clay & Song, Ltd., Printers, Burgay, Suppole.

HERBERT HOOVER

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DEDICATED

ILLUSTRATED BY THE AUTHOR'S SMALL NEPHEW DAWSON HUNT PERKINS THE LITTLE RASCAL

NOTE

All the foods mentioned in this book, some of which may be unfamiliar to English readers, should now be obtainable in the large London stores.

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Ι

PRELIMINARY BOUT

Rule to Find Ideal Adult Net Weight

MULTIPLY number of inches over 5 ft. in height by $5\frac{1}{2}$; add 110. For example: Height 5 ft. 7 in. without shoes.

 $7 \times 5\frac{1}{2} = 38\frac{1}{2} + 110$

Ideal weight 148¹/₂

If under 5 ft. multiply number of inches under 5 ft. by $5\frac{1}{2}$ and subtract from 110.

Are You Thin and Do You Want to Gain?

Skip this chapter. It will not interest you Don't in the least. I will come to you later. I am Read not particularly interested in you anyway, for I cannot get your point of view. How any one can want to be anything but thin is beyond my intelligence. However, knowing that there are such deluded individuals, I have been constrained to give you advice. You won't find it spontaneous nor from the heart, but if you follow my directions I will guarantee that you will gain; providing, of course, you have no organic trouble; and the chances are that by giving proper attention to your diet you will gain anyway, and maybe in passing lose your trouble. Who knows?

In war time it is a crime to hoard food, and fines and imprisonment have followed the exposé of such practices. Yet there are hundreds of thousands of individuals all over America who are hoarding food, and that one of the most precious of all foods ! They have vast amounts of this valuable commodity stored away in their own anatomy.





Now fat individuals have always been considered a joke, but you are a joke no longer. Instead of being looked upon with friendly tolerance and amusement, you are now viewed with distrust, suspicion, and even aversion! How dare you hoard fat when our

Bad Business nation needs it? You don't dare to any longer. You never wanted to be fat anyway, but you did not know how to reduce, and it is proverbial how little you eat. Why, there is Mrs. Natty B. Slymm, who is beautifully thin, and she eats twice as much as you do, and does not gain an ounce. You know positively that eating has nothing to do with it, for one time you dieted, didn't eat a thing but what the doctor ordered, besides your regular meals, and you actually gained.

You are in despair about being anything but fat, and——! how you hate it. But cheer up. I will save you; yea, even as I have saved myself and many, many others, so will I save you.

It is not in vain that all my life I have had Spirituality to fight the too, too solid. Why, I can remember when I was a child I was always being consoled by being told that I would outgrow it, and that when I matured I would have some shape. Never can I tell pathetically "when I was married I weighed only one A Long, hundred eighteen, and look at me now." Long No, I was a delicate slip of one hundred and sixty-five when I was taken.

I never will tell you how much I have weighed, I am so thoroughly ashamed of it, but my normal weight is one hundred and



fifty pounds, and at one time there was seventy pounds more of me than there is now, or has been since I knew how to control it. I was not so shameless as that very long, and as I look back upon that short period I feel like refunding the comfortable salary received as superintendent of a hospital; for I know I was only 65 per cent. efficient, for efficiency decreases in direct proportion as excess weight increases. Everybody knows it.

The Meeting Is Now Open for Discussion

Jolly Mrs. Sheesasite has the floor and wants some questions answered. You know Mrs. Sheesasite; her husband recently bought her a pair of freight scales.

"Why is it, Doctor, that thin people can eat so much more than fat people and still not gain?"

"First: Thin people are usually more active than fat people and use up their food.

"Second: Thin people have been proved to radiate 50 per cent. more heat per pound than fat people; in other words, fat people are regular fireless cookers! They hold the heat in, it cannot get out through the packing, and the food which is also contained

Mrs. Sheesasite

Me Answering therein goes merrily on with fiendish regularity, depositing itself as fat.

"And there are baby fireless cookers and children fireless cookers. The same dietetic rules apply to them as to the adult."

"I recognize Mrs. Tiny Weyaton; then you, Mrs. Knott Little."

"We have heard you say that fat people Mrs. eat too much, and still we eat so little?" Weyaton

"Yes, you eat too much, no matter how little Me Again it is, even if it be only one bird-seed daily, if you store it away as fat. For, hearken; food, and food only (sometimes plus alcohol) maketh fat. Not water-not air-verily, nothing but food maketh fat. (And between you and me, Mrs. Weyaton, just confidential like don't tell it-we know that the small appetite story is a myth.)"

"But, Doctor, is it not true that some indi-Mrs. viduals inherit the tendency to be fat, and Knott Little cannot help it, no matter what they do?"

"Answer to first part-Yes.

Doctor

"Answer to second part-No! It is not true that they cannot help it; they have to work a little harder, that is all. It is true that being fat is a disease with some, due to imperfect working of the internal secretory glands, such as the thyroid, generative glands, etc.; but that is not true fat such as you have. Yours, and that of the other members who are interested, is due to overeating and underexercising.

"Those diseased individuals should be under the care of a physician. Probably the secretory glands are somewhat inactive or sluggish in the healthy fat individual. I use the word healthy here in contradistinction to the other type. In reality, individuals very much overweight are not really healthy, and they should also visit their physician."

"Yes, Mrs. Ima Gobbler?"

"But. Doctor dear, what's the use of Ima Gobbler dieting? I only get fatter after I stop."

(Answering delicate like, for I'm fond of her and she is sensitive):

"You fat----! You make me fatigued! You never diet long enough to get out of the fireless cooker class. If you did, you wouldn't."

" Is there anyone else who would like to be recognized? No?"

It is well. I will probably answer more as I go along, for there is nothing that I don't know or haven't studied or tried in the reducing line. I know everything you have to con-Don't Know tend with-how you no sooner congratulate yourself on your will power, after you have dragged yourself by the window with an exposure of luscious fat chocolates with

Mrs. Doctor Dear

Nothing

That I

Not ?

curlicues on their tummies, than another comes into view, and you have it all to go through with again, and how you finally succumb.

I hope sometime it will be a misdemeanour, punishable by imprisonment, to display candy as shamelessly as it is done.

Many fond parents think that candy causes worms. It doesn't, of course, unless it is contaminated with worm eggs, but, personally, I wish every time I ate a chocolate I would get a worm, then I would escape them. The chocolates, I mean. I will tell you more about worms when I discuss meat.

I know how you go down to destruction for Vampires peanuts, with their awful fat content. It is terrible, the lure a peanut has for me. Do Malicious you suppose Mr. Darwin could explain that? Animal

Perhaps I was a little too delicate like in my Magnetism answer to Mrs. Gobbler's question,—What's the use of dieting, she only gets fatter after she stops?

So many ask me that question, with the further pathetic addition,—Will they always have to keep it up? And it ever irritates me.

The answer is,—Yes! You will always have to keep up dieting, just as you always have to keep up other things in life that make it worth living—being neat, being kind, being tender; reading, studying, loving.

You will not have to be nearly so strenuous after you get to normal; but you might as well recognize now, and accept it as a fact, that neither you nor anybody else will be able to eat beyond your needs without accumulating fat or disease, or both.

I love Billy Sunday's classical answer to the objection that his conversions were not permanent. He responded: "Neither is a bath!"

WHEN YOU START TO REDUCE

A Combat

you will have the following to combat:

First: Your husband, who tells you that he does not like thin women. I almost hate my husband when I think how long he kept me under that delusion. Now, of course, I know all about his jealous disposition, and how he did not want me to be attractive.

Second : Your sister, who says, "Goodness, Lou, but you look old to-day; you looked lots better as you were."

Third: Your friends, who tell you that you are just right now; don't lose another pound. And other friends who tell you cheerful tales of people they have known who reduced, and who went into a decline, and finally died.

But you must not mind them. Smile, and

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tell them that you know all about it, and don't worry. Go serenely on your way, confi-To Avoid dent in your heart that you will look fully ten Slack in years younger when you get down to normal, Double and no matter how you look in the interim. I Triple Chins, don't see why women, and men, too (secretly) Massage worry so much about wrinkles. If the in-Vigorously creased wrinkles on the face are accompanied Down, Not by increased wrinkles in the grey matter, 'tis Crossways a consummation devoutly to be wished. I'm sure I am much more interesting with wrinkles I Am than I was without. I am to myself, anyway. Interesting

However, you will not be any more wrinkled if you reduce gradually, as I advise, and keep up your exercises at least fifteen minutes daily.

Take care of your face, alternate hot and I Have a cold water, glycerine one-quarter, rose water Beautiful three-quarters, cold cream packs, massage Complexion gently, a little ice—you know what to do—I Attended you need not fear. You will not only look ten an years younger and live twenty years longer—Art School I assert it boldly—but your complexion and Six Months Once

If there is anything comparable to the joy of taking in your clothes, I have not experienced it. And when you find your corset coming closer and closer together (I advise a Joy ! front lace, so this can be watched), and then the day you realize that you will have to stitch in a tuck or get a new one!

But don't be in a hurry to make your clothes smaller now. If they are loose they will show to the world that you are reducing. A fat person in a tight suit, unless it is perfectly new, should be interned.

Food Only
I have said that food, and food only causes fat. That gives you the cue to what you must do to get rid of it. No anti-fat medicines unless under the supervision of your scientific, educated physician. They are dangerous; most of them contain thyroid extract, arsenic, or mercury. Even the vendors of these harmful compounds in their advertisements are now saying to "stop harmful drugging," but urge you to adopt their particular delightful product, and, "without limpossible
Impossible dieting or exercises, you will positively reduce," and so forth.

No drastic purges, no violent exercises, especially at first, and not too frequent nor prolonged Turkish baths. Epsom salts baths have little effect. If salts are used habitually internally, they are harmful. All of these are unscientific and unsuccessful, and the things they bring on are worse than the fat.

Now, if food is the only source of body substance, you see that you must study that

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question, and that is what I will give yousome lessons on foods and their values.

Heretofore you have known only in a Candy dumb, despairing sort of way that all the Cake, Pie Rich Meats foods you like are fattening, and all the Thick Gravy advice you read and hear is that you must Bread avoid them as a pestilence. And you settle Butter down to your joyless fatness, realizing that it Nuts Ice Cream is beyond human strength to do that forever, and that you would rather die young and fat, anyway, than to have nothing to eat all your life but a little meat, fish, and sloshy vegetables. Study on, and you will find the reason Whipped Cream vour favourite foods are fattening. Candied

But cast off your dejection. You don't Sweet have to avoid them ! Potatoes

Eat what you like and grow thin? Yes; follow me. I know it will be an exertion. but you must persist and go through with it. Nothing in life worth while is attained without some effort. So begin now; it is the price of liberty.

Review

1. Give rule for normal weight.

2. How much excess food have you stored away?

8. Why more important than ever to reduce?

4. Why are fat individuals fireless cookers?5. Give causes of excess fat.

NOTE: The Reviews which follow the chapters are important and the questions should be answered. To get the full benefit, Little Book must be studied, for it is the only authorized textbook of the "Watch Your Weights."



Don't

II

KEY TO THE CALORIES

Some one page the thin? They come back here.

Definition to learn:

CALORIE; symbol C.; a heat unit and Skip food value unit; is that amount of heat necessary to raise one pound of water 4 degrees *Pronounced* Fahrenheit. Kal'-o-ri

There is a good deal of effort expended by many semi-educated individuals to discredit the knowledge of Calories, saying that it is a foolish food science, a fallacy, a fetish, and so forth.

They reason, or rather say, that because there are no Calories in some of the very vital elements of foods—the vitamins and the mineral salts—therefore it is not necessary to know about them. They further argue that their grandfathers never heard of Calories and they got along all right. That grandfather argument always enrages my mortal mind.

Now you know that a Calorie is a unit of

A Unit of Measure measuring heat and food. It is not heat, not food; simply a unit of measure. And as food is of supreme importance, certainly a knowledge of how it should be measured is also of supreme importance.

You should know and also use the word Calorie as frequently, or more frequently, than you use the words foot, yard, quart, gallon, and so forth, as measures of length and of liquids. Hereafter you are going to eat Calories of food. Instead of saying one slice of bread, or a piece of pie, you will say 100 Calories of bread, 350 Calories of pie.

The following is the way the Calorie is determined:

An apparatus known as the bomb calorimeter has two chambers, the inner, which contains the dry food to be burned, say a definite amount of sugar, and an outer, which is filled with water. The food is ignited with an electric connection and burned. This heat is transferred to the water. When one pound of water is raised 4 degrees Fahrenheit, the amount of heat used is arbitrarily chosen as the unit of heat, and is called the Calorie.

Food burned (oxydized) in the body has been proved to give off approximately the same amount of heat or energy as when burned in the calorimeter.

Yes, They Are "Kosher" 1 oz. Fat = 275 C. Approximate --about 255 in the body. Measures 1 oz. Protein (dry)= 120 C. --about 113 in the body. 1 oz. Carbohydrates (dry) = 120 C. --about 113 in the body. (RosE.)

Can you see now why fats are valuable? Why they make fat more than any other food? They give off more than two and one-fourth times as much heat, or energy, as the other foods.

Notice that protein and carbohydrates have the same food value as to heat or energy, See Next each 113 Calories to the dry ounce. However, Chapter for they are not interchangeable; that is, carbohydrates will not take the place of protein, for protein is absolutely necessary to build and repair tissue, and carbohydrates cannot do that. But fats and carbohydrates are interchangeable as fuel or energy foods.

Calories Needed per Day for Normal Individuals

This depends upon age, weight, and physical activities; the baby and the growing *Business* child needing many more Calories per pound of *Growing* per day than the adult, who has to supply only his energy and repair needs. The aged require still less than the young adult. As to weight; I have told you why overweight individuals need so little. As to physical activities; the more active, obviously the more Calories needed, for every movement consumes Calories.

The Maine lumbermen, for instance, while working during the winter months, consume from 5000 to 8000 Calories per day. But they do a tremendous amount of physical work.

Many Know Nothing of This Mental work does not require added nourishment. This has been proved, and if an excess be taken over what is needed at rest (if considerable exercise is not taken while doing the mental work) the work is not so well done.

		Per pound per day
Calories	Infants require	40 to 50 C.
Required	Growing Children	30 to 40 C.
for Normal	Adults (depending upon activity)) 15 to 20 C.
	Old age requires	15 or less C.

In Round Numbers for the Day

Child 2–6	.1000	to 1600	C .	per day
Child 6–12	.1600	to 2500	C.	per day
Youth 12–18	.2500	to 8000	C.	per day
(Remember that	in ger	neral the	bo	y needs

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as much as his father, and the girl as much as Growth her mother.) Demands

Example of Finding Number of Calories Needed

- 1. Determine normal weight by rule.
- 2. Multiply normal weight by number of Calories needed per pound per day.

For example, say you weigh 220 or 125 lbs., but by the rule for your height your weight should be 150 lbs.; then 150 would be the number you would use. Work Out Your Requirements 28

By the rule I have given, adults require 15-20 Calories per pound per day, depending upon activity. For example, if you have no physical activities, then take the lowest figure, 15. $150 \times 15 = 2250$. Therefore your requirement, if your weight should be 150, is 2250 Calories per day.

Now, if you want to lose, cut down 500-1000 Calories per day from that.

Five hundred Calories equal approximately 2 ounces of fat. Two ounces per day would be about 4 pounds per month, or 48 pounds per year. Cutting out 1000 Calories per day would equal a reduction of approximately 8 pounds per month, or 96 pounds per year. These pounds you can absolutely lose by having a knowledge of food values (Calories) and regulating your intake accordingly. You can now see the importance of a knowledge of 1 lb. fat 4000 Calories.

 $\frac{1}{4}$, , 2000 If you want to gain, add gradually 500- $\frac{1}{4}$, , 1000 1000 Calories per day.

1,,,, 500

Review

1. Define Calorie, and tell how determined.

2. How many C. in 1 oz. fat: of carbohydrates? of protein? 8. Why are fats so fattening?

4. How many C. per day do you require? do mental workers?

5. Upon what do C. needed per day for normal individuals depend? Discuss.

ш

This Is Dry but

REVIEW AND MORE DEFINITIONS

FOOD: That which taken into the body builds and repairs tissue and yields energy in heat and muscular power.

CLASSES OF FOOD:

Approx. %s if Normal

- 1. Protein, 18 per cent. of body weight.
- 2. Fats, 16 per cent. of body weight.
- 3. Carbohydrates, 1 per cent. of body weight.
- 4. Mineral matter, 5 per cent. of body weight.
- 5. Vitamins.
- 6. Water, 60 per cent. of body weight.
- Nitrogenous Food Compounds PROTEIN: Builds tissue, repairs waste, yields energy, and may help store fat. One-half, at least, of your protein should be from the vegetable kingdom.

A large percentage of protein is contained in

Eggs Meat Fowl Fish Nuts Milk Cheese Gluten of Wheat Legumes (beans, peas, lentils, peanuts, etc.) 30

- There is about one-fourth ounce protein in *Protein* 1 egg 118 C. *Per Ox.*
 - 1 glass milk (skim, butter, or whole)
 - $1\frac{1}{2}$ oz. lean meat, or fish or fowl.
 - 1 oz. $(1\frac{1}{5}$ cu. in.) whole milk cheese.
 - 2 slices of bread, $3\frac{1}{2} \times 3\frac{1}{2} \times \frac{1}{2}$ (white, whole wheat, corn, etc.).
 - 3 heaping tablespoonfuls canned baked beans.
 - 17 peanuts.
- FATS: Yield energy and are stored as fat. 255 C.
 Animal Fat: Cream, Butter, Lard. Per Oz.
 Oils: Cottonseed, Olive.
 Almonds, Peanuts, Walnuts.
 Chocolate, etc.

CARBOHYDRATES : Yield energy and are 113 C. stored as fat. Per Oz. Sugars (candy, honey, syrup, sweet fruits). Starches (breads, cereals, potatoes, corn, legumes, nuts). Vegetable fibre, or cellulose.

MINERAL MATTER: Shares in forming

bones and teeth, and is necessary for proper functioning.

Carbon	Lime	Sodium	Potassium,
Sulphur	Iron	Phosphorus	Etc.

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Whole Grain Products Not **Devitalized**

These elements are contained largely in the outer coatings of grains, fruits, and vegetables, and in animal foods and their products. Do not pare potatoes before cooking. Cook vegetables in a small amount of water, saving the water for soups and sauces.

WATER: The universal solvent, absolutely necessary for life.

Contained in purest form in all vegetables and fruits. The average person needs, in addition, from three to five pints taken as a drink. If not sure of the purity, boil. Do not drink while food is in the mouth.

Absolutely Necessary for Growth VITAMINS: Health preservers. Vital substances necessary for growth. The chemistry of these products is at present not thoroughly understood, but their importance has been demonstrated by experiments (not torture) on animals. By this work we know that diseases like beri-beri. scurvy, rickets, and probably pellagra, are due to a lack of these vital elements in the food, and from that fact these are called " deficiency " diseases.

Of course I realize that nations can be saved from horrible diseases, and hundreds and thousands of babies saved from death, through this experimentation on a few guinea-pigs and other animals; but what is Guinea Pigs the life of a baby compared with the happi-v. Babies ness of a guinea-pig? Down with animal experimentation! Let us do everything in our power to hamper scientific work of this kind. We are giving up our husbands, fathers, sons, perhaps to die, for the cause of humanity, but a guinea-pig! Horrors!

It has been found that the vitamins, like the minerals, are most abundant in the outer coverings and the germ of grains, and in fruits and vegetables. They are also present in fresh milk, butter, meat and eggs. Babics fed pasteurized or boiled milk should have fruit juices and vegetable purées early. Begin with one-half teaspoonful, well diluted, and gradually increase the feeding to an ounce or more between meals once or twice daily.

Most animal fats have the vitamins, but vegetable fats are deficient in them. That is the reason cod liver oil is better for some therapeutic uses than olive oil.

BALANCED DIET: Should contain

Balanced Diet

10–15 per cent. Protein

(children may need more)

25-80 per cent. Fat.

60-65 per cent. Carbohydrates.

For example, suppose you are a fairly c

To Get the Elements Necessary for Health active woman and need 2500 Calories per day. Then for a balanced diet you would need:

2500 C.

250 C. of P. = $2\frac{1}{5}$ oz. dry protein.

 $(250 \div 113 = 2\frac{1}{5}, \text{ approximately.})$

625 C. of F. = $2\frac{1}{2}$ oz. of fat.

 $(625 \div 255 = 2\frac{1}{2}, \text{ approximately.})$

1625 C. of CH. = $14\frac{1}{2}$ oz. dry carbohydrates.

 $(1625 \div 113 = 14\frac{1}{2} \text{ approximately.})$

Two and one-fifth ounces dry protein equals the approximate amount of protein in 10 ounces lean meat, fish, or fowl, or 9 ounces cheese, or nine eggs. (You should not take all of your proteins in any of these single forms.) Two and one-half ounces fat equals approximately five pats of butter.

If Appetite Not **Pervert**ed

But listen ! You don't have to bother with all this fussy stuff. Be careful not to over- or under-eat of the proteins, and your tastes will be a fair standard for the rest. You should remember that a balanced diet contains some of all these foods, in about the proportions given, and that, while watery vegetables and fruits contain very few calories, they contain very important mineral salts, vitamins, and cellulose. The latter is good for the daily scrub of the intestinal tract.

CONSTIPATION is many times caused by A Pretty a too concentrated diet, or one containing too Nearly little roughage. It has also been discovered Error that some individuals who are troubled with faulty elimination digest this cellulose, and only the more resistant, like bran, is not absorbed. For those, the Japanese seaweed called agar-agar in the laboratory, but more familiarly known as agar by the layman, is excellent. The most industrious digestive tract apparently cannot digest that. It has the further property of absorbing a large amount of water, thus increasing its bulk.

Mineral oils (refined paraffin) also are not C. S. absorbable, and they act with benefit in some cases. About the worst thing to do, in general, is to take physic constantly. These are not physics, however; they act mechanically. Even the C.S. (common-sense?) individual can take these. The agar may be Have Enough taken two or three heaping teaspoonfuls in a Water, Else large glass of water before retiring, or in the *You'll Choke* to Death. I morning before breakfast, or in lieu of four Did Once o'clock tea. Drink it down rapidly—for goodness' sake, don't try to chew it. Mineral oil will make fine mayonnaise dressing. It has little or no food value, so the constipated overweight individual may indulge freely. For faulty elimination, then—

1. Correct diet.

2. Exercise-especially brisk walking.

3. Regularity of habit.

4. Possibly the addition of bran, agar, or mineral oils.

5. Sweet disposition. Mean people are always constipated.

Review

1. Give classes of food, with examples of each.

2. What are vitamins? How importance discovered?

3. Where most abundant?

4. What is a balanced diet?

5. What should be done for faulty elimination?

IV

MORE KEYS AND MORE CALORIES

THE following list probably does not con-List of Foods tain all of the foods you might like and want to Follow to know about, but from those named you can judge of the food value of others. In general, the caloric value, and therefore the fattening value, depends upon the amount of fat and the degree of concentration.

But remember this point: Any food eaten Important beyond what your system requires for its energy, growth, and repair, is fattening, or is an irritant, or both.

If a food contains much fat, you will know that it is high in food value, for fat has two and one-quarter times the caloric value that proteins and carbohydrates have. Dry foods are high in value, for they are concentrated and contain little water. Compare the quantity of two heaping teaspoonfuls of sugar, a concentrated food, and one and one-half <u>A Moderate</u> pounds of lettuce, a watery vegetable, each <u>Chocolate</u> having the same caloric value. A moderate <u>Cream</u> Enuf Sed sized chocolate cream is not only concentrated but has considerable fat in the chocolate.

It is not necessary to know accurately the caloric values. In fact, authorities differ in some of their computations. The list is not mathematically correct, but it will give you a good idea of the relative values, and is accurate enough for our purposes. I have purposely given round numbers, where possible, in order to make them more easily remembered.

In reckoning made dishes, such as puddings and sauces, you must compute the different ingredients approximately. About how much sugar it has, how much fat to the dish, and so on. In reckoning any food, if you are reducing, give it the benefit of the doubt on the high count; and if trying to gain, count it low.

It is well, if you are much overweight or underweight, to have some of these foods that are given weighed, so that you can judge approximately what your servings will total.

A Mixture

A mixture of foods should be used, in order to get the different elements which are necessary for the human machine. It is not wholesome to have many foods at a meal; but the menu should be varied from day to day.

Any regimen which does not allow some carbohydrates and fats for the fuel foods is injurious if persisted in for a length of time.

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As to harmful combinations; there are not many, and if your food is thoroughly masti-*Thoroughly* cated you need not concern yourself very *Masticate* much about them. However, if you find a food disagrees with you, or that certain combinations disagree, do not try to use them. Underweight individuals sometimes have to train their digestive tracts for some of the foods they need.

Coffee, tea and other mild stimulants are not harmful to the majority; but, like everything else, in excess they will cause ill health. Alcoholic drinks make the fat fatter and the thin thinner, and both more feeble mentally.

MEASURING TABLE

1 teaspoon (tsp.) fluid	$\frac{1}{6}$ oz.
1 dessertspoon (dsp.)	$\frac{1}{3}$ oz.
1 tablespoon (tbsp.)	$\frac{1}{2}$ oz.
1 ordinary cup	8 oz.
1 ordinary glass	8 oz.
Average helping	a.h.

DIET AND HEALTH

One Hundred Calorie Portions and Average Helpings

(Approximate Measures) (Atwater, Locke, Rose)

MEATS

Meats	Beefsteak, lean round $A.h. \dots 3\frac{1}{2}$ oz., 185 C.	2 oz.	100 C.
	Beefsteak	1 oz.	100 C.
	Beef, roast, very lean A.h 150 C.	3 oz.	100 C.
	Chicken, roast 180 C.	1 <u></u> 3 oz.	100 C.
	1 Sausage	1 oz.	100 C.
	Chops, Lamb or Mutton Average chops 150-300 C.	$1\frac{1}{2}$ oz.	100 C.
	Pork :		
	Bacon, crisp 1 small slice, crisp 25 C.	$\frac{1}{2}$ oz.	100 C.
	Chop Medium 160-300 C.	$1\frac{1}{2}$ oz.	100 C.
	Ham, boiled	1 1 oz.	100 C.
	Ham, fried	$\frac{3}{4}$ OZ.	100 C.

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 Sausage
 1 oz. 100 C. Meats

 1 small, crisp
 60 C.

 Turkey
 11/3 oz. 100 C.

 A.h.
 31/3 oz., 260 C.

FISH

Fish, lean, Cod, Halibut	3 oz.	100 C. Fish
A.h 4 oz., 135 C.		Boiled or Broiled
Fish, fat, Salmon, Sardines	$1\frac{1}{2}$ oz.	100 C. <i>Brotted</i>
A.h 4 oz., 260 C.		
Lobster	4 oz.	100 C.
A.h 100 C.		
Oysters	12	100 C. Fish Raw
1 oyster 8 C.		

SOUPS

DAIRY PRODUCTS AND EGGS

Butter, 1 level tbsp. scant 1 ball 120 C.	$\frac{1}{2}$ oz.	Products
Cheese (American, Roquefort,		and Eggs
Swiss, etc.) $\ldots 1\frac{1}{8}$ cu. in.	3 OZ.	100 C.
Cottage Cheese	8 oz.	100 C.
A.h 100 C.		

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Dairy Products and Eggs

Whole Milk 5 oz.	100 C.
1 glass 160 C.	
Skim Milk 10 oz.	100 C.
1 glass 80 C.	
Malted Milk (dry) 1 h. tbsp.	100 C.
Buttermilk, natural 10 oz.	100 C.
1 glass 80 C.	
Koumiss 6 oz.	100 C.
1 glass 130 C.	
Condensed, unsweetened 2 oz.	100 C.
1 tbsp 85 C.	
Condensed, sweetened, 1 ¹ / ₄ tbsp.	100 C.
Cream, average $\dots 1\frac{1}{3}$ oz.	100 C.
1 tbsp 50 C.	
Cream, whipped $\dots 1_{\frac{1}{8}}$ oz.	100 C.
1 h. tbsp 100 C.	
Eggs, 1 large 1	100 C.
Average egg 80 C.	
Boiled or poached; if fried, C. deper	nd upon
fat adhering.	-

VEGETABLES

VegetablesWhen not otherwise indicated, the method
of cooking is by boiling. The caloric value of
sauces served with them not included.Asparagus, large stalks....Asparagus, large stalks....1 stalk.....5 C.BeetsBeets.....1 lb.100 C.2 h. tbsp.....80 C.

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Beans, baked, home	1 <u>1</u> oz.	100 C. Vegetables
3 h. tbsp 300 C.	-	
Beans, baked, canned	$2\frac{1}{2}$ oz.	100 C.
3 h. tbsp 150 C.		
Beans, string	1 lb.	100 C.
2 h. tbsp 15 C.		
Cabbage	$1\frac{1}{2}$ lb.	100 C.
3 h. tbsp 10 C.		
Carrots	1 lb.	100 C.
3 h. tbsp 20 C.		
Cauliflower	1 lb.	100 C.
3 h. tbsp 20 C.		
Celery, uncooked	1 lb.	100 C.
6 stalks 15 C.		
Cucumber	1½ lb.	100 C.
10 to 12 thin slices 10 C.		
Lettuce	$1\frac{1}{2}$ lb.	100 C.
A.h. 5–10 C.		
Mushrooms	8 oz.	100 C.
Onions, 2 large	8 oz.	100 C.
Parsnips	8 oz.	100 C.
A.h. 2 oz., 25 C.		
Peas, green	3 oz.	100 C.
A.h., 8 h. tbsp 100 C.		
Potatoes, white	3 oz.	100 C.
1 medium 100 C.		
Potato Chips, scant	1 oz.	100 C.
A.h., 8-10 pieces 100 C.		

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Radishes	1	lb.	100 C.
A.h., 6 red button 15 C.			
Spinach	1	lb.	100 C.
A.h., $\frac{1}{2}$ cup 25 C.		-	
Vegetable Marrow	1	lb.	100 C.
A.h., 2 h. tbsp 25 C.			
Tomatoes	1	lb.	100 C.
A.h., 1 large 50 C.			
Turnips	1	lb.	100 C.
A.h., 2 h. tbsp 25 C.			
	A.h., 6 red button 15 C. Spinach A.h., $\frac{1}{2}$ cup A.h., $\frac{1}{2}$ cup A.h., 2 h. tbsp. A.h., 2 h. tbsp. A.h., 1 large Turnips	A.h., 6 red button 15 C. Spinach 15 A.h., ½ cup 25 C. Vegetable Marrow 1 A.h., 2 h. tbsp. 25 C. Tomatoes 1 A.h., 1 large 50 C. Turnips 1	Spinach 1 ½ lb. A.h., ½ cup 25 C. Vegetable Marrow 1 lb. A.h., 2 h. tbsp. 25 C. Tomatoes 1 lb. A.h., 1 large 50 C. Turnips 1 lb.

FRUITS

Fruits	A pple	7	oz.	100 C.
	1 average size 50 C.			
	Banana	5	oz.	100 C.
	1 small 100 C.			
	*Berries, average	5	oz.	100 C.
	1 small cup 100 C.			
	Cantaloupe	1	lb.	100 C.
	A.h., $\frac{1}{2}$ melon 100 C.			
	Cherries	5	oz.	100 C.
	A.h., 1 small cup 100 C.			
	Grapes	5	oz.	100 C.
	A.h., 1 small bunch 100 C.			
	Lemons (5 oz. each)	2		100 C.
	They won't make you thin.			
	Average size 80 C.			
	• 04 1 1 1 1 1 1 1 1 1 1			

• Strawberries, raspberries, blackberries, gooseberries, loganberries, etc.

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Oranges (9 oz. each)	1.	100 C. Fruits
Peaches (5 oz. each)	2	100 C.
Average size 50 C.		
Pears (6 oz. each)	1	100 C.
Average size 90 C.		
Pineapple, fresh	7 oz.	100 C.
2 slices, 1 in. thick 100 C.		
Plums, large	8 or 4	100 C.
1 plum 30 C.		
Watermelon	$1\frac{1}{2}$ lb.	100 C.
Large slice 15 C.		
Dates (dry), large	3-4	100 C.
1 large 25 C.		
Figs (dry), large	$1\frac{1}{2}$	100 C.
1 large 65 C.		
Prunes (dry), large	8	100 C.
1 large 35 C.		
Stewed, 4 medium, with 4		
tbsp. juice 200 C.		

BREAD AND BISCUITS

breads that it is not necessary for reducing to try to get it. (Toasted bread has the same caloric value that it had before toasting. It is more easily digested, but just as fattening. Advised, however, because it makes you chew.)

1 French or Vienna roll		100 C.
Zweiback	<u></u> 3 oz.	100 C.
1 slice, $3\frac{1}{4} \times 1\frac{1}{4} \times \frac{1}{2}$ in., 35 C.		
Graham Crackers	3	100 C.
1 c., 8 in. sq 35 C.		
Oyster Crackers	24	100 C.
Soda Crackers	4	100 C.
1 c 25 C.		
Pretzels	5	100 C.
1 p 20 C.		

BREAKFAST FOODS, ETC.

Breakfast Foods	Farina or Cream of Wheat 6 oz. 10 2 h. tbsp. 60 C. 60 C. 60 C.	00 C.
(Cereals Cooked)	Force 1 oz. 10 5 h. tbsp. 65 C.	00 C.
	Grapenuts, scant 1 oz. 10 2 tbsp 100 C.	00 C.
	Griddle Cakes, 4 ¹ / ₂ in. in diam 10 A.h., 3 cakes 800 C.	00 C.
	(This does not include butter and sy remember.)	rup,

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Hominy	4 oz.	100 C. Breakfast Foods
Macar oni, plain	4 oz.	100 C.
2 h. tbsp 90 C.		1 \
Macaroni and Cheese (depends or	i amt. o	cheese).
2 h. tbsp 200–300 C.		
Muffin, average	$\frac{3}{4}$ m.	100 C.
1 muffin 125 C.		
Oatmeal	5 oz.	100 C.
1 small cup 100 C.		
Puffed Rice	1 oz.	100 C.
5 h. tbsp 50 C.		
Rice, boiled	4 oz.	100 C.
$\frac{1}{2}$ cup 100 C.		
Shredded Wheat Biscuit	1	100 C.
Triscuits (2)		100 C.
Waffles, scant	$\frac{1}{2}$ w.	100 C.
1 waffle 225 C.		

CANDY, PASTRIES AND SWEETS

Chocolate Creams, medium	1	100	C. Candy
Chocolate, 1 lb.		2880	C. Pastries C. and C. Sweets C.
Cherries, candied	10	100	C. Syneets
Cup Custard, $\frac{1}{3}$ cup		100	C.
Chocolate Nut Caramels			
$1 \times 1 \times \frac{4}{2}$ in		100	C.
Other candies, reckon suga	r, nut	s, etc.	

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Pastries Plain bun, diam. 3 in. 100 C. 2 and 1 bun 50 C. Sweets If raisins or nuts in them, count extra. 100 C. Doughnut scant 8 1 average size 160 C. Gingersnap 100 C. 5 1 gingersnap 20 C. Honey, h. tbsp. 1 100 C. Thick syrups approximately the same. Ladyfingers, scant 1 oz. 100 C. 1 ladyfinger 35-50 C. Macaroons 100 C. 2 1 macaroon 50 C. Pie with top crust, about $\frac{1}{4}$ ordinary slice, or $1\frac{1}{2}$ in. . . 100 C. A.h., ½ pie 350 C. 100 C. Pie without top crust, 2 in. . . Custard, lemon, squash, etc. A.h., ½ pie 250-300 C. Puddings, average cup 100 C. + A.h. 200–350 C. Depends upon richness. Ice Cream h. tbsp. 100 C. 1 A.h. 200–850 C. Depends upon richness. Cakes 1 oz. 100 C. Depends upon size, icing, fruit, nuts, etc.; compute approximately:

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Sugar ci	ıbes	3	100 C.
Granulated h	. tsp.	2	100 C.

Saccharin, a coal tar product 300 to 500 times sweeter than sugar, but of no food value. Not advisable to use habitually. Better learn to like things unsweetened it can be done.

CONDIMENTS AND SAUCES

Mayonnaise, m. tbsp	1	100 C. Condiments
A.h 200 C.		and
Olive Oil and other oils, dsp.	1	100 C. Sauces
Olives, green or ripe 6-	8	100 C.
1 olive 10–15 C.		
Tomato Catsup	6 oz.	100 C.
1 tbsp 10 C.		
Thick Gravies tbsp.	8	100 C.

NUTS

Almonds, large	10	100 C. Nuts
1 almond 10 C.		
Brazil, large	$2\frac{1}{2}$	100 C.
1 Brazil nut 45 C.		
Chestnuts, small	20	100 C.
1 chestnut 5 C.		Descude
Peanuts, large double	10	100 C. Really
1 bag 250-800 (2.	a Legume
D		•

 Walnuts, large
 $3\frac{1}{3}$ 100 C.

 1 walnut
 80 C.

 Cocoanut, prepared
 $\frac{1}{2}$ oz.
 100 C.

 Peanut Butter
 $2\frac{1}{2}$ tsp.
 100 C.

Key to Key

	1109 00 1109
Remember This	If you will remember the following portions of food, you will have a standard by which to
	compute your servings :
	Lean Meat : a piece $3 \times 2 \times \frac{1}{2}$ in. (2 oz.) 100 C.
	Now if your serving of meat or fish is fat,
	mentally cut in two for same value. If very
	lean, you should add a little.
	White Bread : slice $3 \times 4 \times \frac{1}{2}$ in. 100 C.
	Compute other breads by this.
	Butter: 1 scant tablespoonful 100 C.
	Sugar: 1 heaping teaspoonful 50 C.
	Potatoes: 1 medium, boiled or baked 100 C.
	Watery Vegetables : 1 helping 15-35 C.
	If food is fried, or butter, oil, or cream
	sauces are added, the C. value increases
	markedly.
	Review
	1. Why is a mixture of foods necessary?
	2. Give the caloric value of the following :
	1 glass of milk, skim; buttermilk; 10 choco-

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late creams; 1 bag peanuts; 1 pat butter; *Review* 1 piece pie.

3. Name foods low in caloric value. Why are they valuable?

4. How many calories of bread and butter do you daily consume?

5. Reckon your usual caloric intake. How much of it is in excess of your needs?

6. Memorize caloric value of foods you are fond of.

This Table of Foods, With the C. Given Per Oz. Will Help You

The calorific value of pure fat is 255 C. per oz., dry starches and sugars (carbohydrates), and protein (the meat element), is 113. This means fats are 21 times more fattening than other foods. Most foods contain considerable water, so the following is an approximate table of foods "as is." I have given round numbers in the table so you can more easily remember them. Memorize it.

Calories per oz.	Calories per oz.
Fats 255	Milk, condensed, sweet. 100
Nuts, edible part 200	Milk condensed, unsweet 50
Sugar 115	Cream, thin 60
Cream cheese 110	Cream, thick 110
Cottage cheese (no fat) 30	Fruits: Dried 100
Breads 75	Sweet 25
Lean meats 50	Acid 15
Lean fish 35	Vegetables : Potatoes,
Eggs (per oz.) 40	plain (oz.) 30
Milk, whole 20	Cooked Legumes (peas,
Milk, skim and butter-	beans, etc.) 20-35
milk (no fat) 10	Watery and leafy 5-15

V

VEGETARIANISM versus MEAT EATING

Protein As protein is the only food which builds and repairs tissue, it is the food which has caused the most controversy.

First : As to the amount needed.

Second : As to whether animal flesh protein is necessary.

AMOUNT NEEDED: It was thought for many years that 150 grams or 5 ounces of dry protein (equivalent to about $1\frac{1}{2}$ pounds lean meat) per day was necessary. But experiments of Chittenden and others have proved that considerably less is sufficient, and that the health is improved if less is taken.

Chittenden's standard is 50 grams, or $1\frac{2}{5}$ ounces, dry protein (equivalent to $\frac{1}{2}$ pound meat per day). This is considered by many as insufficient. A variation from $1\frac{2}{5}$ to 3ounces dry protein per day will give a safe range. (ROSE.)

The amount of protein needed is compara-52

Chittenden

tively independent of the amount of physical Approx. 240 exertion, thus differing from the purely fuel to 360 C. Per Day foods, carbohydrates and fats, which should vary in direct proportion to the amount of physical exertion. In general, 10 to 15 per cent. of the total calories per day should be taken as protein. An excess is undoubtedly irritant to the kidneys, blood vessels, and other organs, and if too little is taken the body tissues will suffer.

Not all of the protein should be taken in the form of animal protein; at least one-half should be taken from the vegetable kingdom.

Animal Flesh Protein

Necessary ?

The following are a few of the chief reasons given by those who object to its use :

First: The animal has just as much right *The* to life, liberty, and pursuit of happiness as *Negative* side

Second: They may be diseased, and there is the possibility of their containing animal parasites, such as tapeworms and trichinæ. I would like to tell you more about worms, they are so interesting, but he says not to try to tell all I know in this little book; that maybe he will let me write another some time, although it is a terrible strain on him, and that I have given enough of the family history, anyway.

Third: The tissues of animals contain Some Word excrementitious material, which may cause excess acidity, raise the blood pressure, and so forth.

Fourth: More apt to putrefy and thus give ptomaine poisoning.

Fifth: Makes the disposition more vicious.

(Honest, — animals eating meat exclusively are more vicious.)

The Affirmative Side Those who believe that animal protein should be eaten answer these points as follows:

First : Survival of the fittest.

Second : If you give decent support to your health departments they can furnish enough inspectors to prevent the marketing of diseased meat; and if some should slip through,

if you thoroughly bake, boil, or fry your animal parasites they will lose their pep.

Third: Most of the harmful products are destroyed by the intestines and liver.

Fourth: "I'rue, but see that you get good meat, an on't eat it in excess.

Fif' Unanswerable—to be proved later by personal experiments.

In addition, they say that animal protein is

more easily digested, that 97 per cent. is assimilated because it is animal, and so it is much more to be desired, especially by children and convalescents; that vegetable protein is enclosed in cellulose, and only 65 to 75 per cent. is used by the system; thus the diet is apt to be too bulky if the proper amount is taken.

It has been proved, however, by several endurance tests, that the vegetarian con-Strong testants had more strength and greater en-Vegetarians durance than their meat-eating competitors, so there is no reason why we should be worried by one or two, or even more, meatless days, especially when animal product protein, such as milk, eggs, cheese, and the vegetable proteins, as in the legumes and the nuts, are available.

I confess that for quite a while after studying vegetarian books I took a dislike to meat, *A* but now I am in the comfortable state de-*Confession* scribed by Benjamin Franklin in his autobiography. It seems that he had been converted to vegetarianism and had decided that he never again would eat the flesh of animals that had been ruthlessly slaugi red, when they so little deserved that fate.

But he was exceedingly fond of λ_{add} , and while on a fishing party, as some fish were

being fried, he found they did smell most admirably well, and he was greatly torn between his desire and his principle. Finally he remembered that when the fish were opened he saw some smaller fish in their stomachs, and he decided that if they could eat each other he could eat them.

Most Noted Picture of B. Franklin Extant



Protein Calories in 100 C. Portions of Food

In 100 C.'s Bread, 1 slice (W.W. the highest) 12 to 16 C.'s P.
In 100 C.'s Cooked Cereals, 1 sm. cup (oatmeal
highest)10 to 18 C.'s P.
In 100 C.'s Rice, 1 small cup 10 C.'s P.
In 100 C.'s Macaroni, 1 small cup 15 C.'s P.
In 100 C.'s Whole milk, 5 oz 20 C.'s P.
In 100 C.'s Skim and buttermilk, 10 oz 35 C.'s P.
In 100 C.'s Cheese, 3 heaping tbsp. Cottage cheese 75 C.'s P.
In 100 C.'s Eggs 11 36 C.'s P.
In 100 C.'s Meat or fish, very lean 2-3 oz. 50 to 75 C.'s P.
In 100 C.'s Nuts, peanuts, almonds, walnuts.
Peanuts the highest 10 to 20 C.'s P.
In 100 C.'s Beans cup average 20 C.'s P.
In 100 C.'s Green peas 2 cup average 28 C.'s P.
In 100 C.'s Corn ‡ cup average 12 C.'s P.
In 100 C.'s Onions 3 to 4 medium 12 C.'s P.
In 100 C.'s Potato 1 medium 12 C.'s P.
In 100 C.'s Tomatoes 1 lb 15 C.'s P.
In 100 C.'s Fresh fruits : berries, currants, rhu-
barb 10 C.'s P.
Others

VI

THE DELUDED ONES-MY THIN FRIENDS

I am going to sandwich you in between the food calories and my fat friends, and maybe you can absorb some of them. In the first chapter, you remember, I said I was not particularly interested in you, but I have changed my mind, and I will treat you tenderly and carefully. I will have to preach a little bit first, but I don't mind that; I What ! love to reform people—Yes, you need reforming !

THE FIRST THING many of you have to do is to learn to accept the trivial annoyances and small misfits of life as a matter of course, for to give them attention *beyond their deserts* is to wear the web of your life to the warp.

Elbert Hubbard never said anything better than that. Have that reproduced in motto form and put it on your bureau, and repeat it fifty times daily.

Good Philosophy Adopt my philosophy. If I have a trivial annoyance I analyze it carefully. Was I to blame? Yes? All right, I am glad, because then I can see that it will not happen again, so I stop worrying. If I am not to blame, if I could not help it in the least, well, then I don't worry about it, for that will not help it any, and I wasn't to blame ! If it bobs up in my mind again, I say: "Now, look here, you annoyance, I have given you all the attention you deserve; avaunt, depart, get out!"

Simple

Now, how is this philosophy going to help you gain?

When you worry needlessly, notice how tense your muscles are. You are exercising them all of the time and using hundreds of calories of energy. You raise your blood pressure, the internal secretory glands may overact (re-read what I have said about these glands in the fat people), and thus many more calories are used. The intestinal secretions do not flow so freely, you have indigestion Lost and do not assimilate your food, and thus Calories hundreds more calories are lost.

It certainly is impossible to gain unless your food is assimilated.

So the first thing you have to learn is this mental control and to relax. Remember that word, relax. After you are better nour-Develop ished your nervous system will not be on hair-Poise trigger tension, and it will be easier for you.

If you are ill in mind or body, remember that it is natural to be well, and that within your body nature has stored the most wonderful forces which are always tending towards No Pain the normal, or health, if not obstructed or In Matter; No Matter hindered. In Pain

Nature sometimes needs help to stimulate Why those forces, or to reinforce them, or to re-Worry? move obstructions. This is where the physician comes in. But you yourself can aid nature the most by realizing that nature is health and it is normal to be well. By so doing, all of your organs function better and you are restored to normal more rapidly.

Second: It is very important to have enough sleep. Dr. Richard Cabot says that Sleep probably resistance is lowered as much by lack of sufficient sleep as by any other factor,

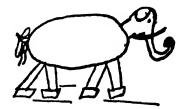
and that all you can soak into your system in twenty-four hours is not too much. Don't forget the fresh air.

You generally suffer from sleeplessness, I believe. The overweights are always advised not to sleep too much. They will find while reducing that they won't want to sleep so much, anyway. They will like to stay awake-they feel so much happier.

Now, when you retire and try to sleep but Sometimes cannot, try this-it works with me. You know when you are passing over your mental images become distorted and grotesque. I artificially induce that state. If I find myself rehearsing about two hundred times, with appropriate gestures, the keen, witty, logical remarks which I could have made in favour of my pet legislation in the club discussion, but didn't, then I begin after this fashion :

Pink elephants with green ribbons on their

Picture of Pink Elephant Adorned



tails-red rhinoceri (is that right, or should it be rhinoceroses ?)-smiling peanuts-Woman's

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Fresh Air

City Club—Social Health Insurance—why didn't I say—I wish I had said—(here get out, you annoyance!)—pink elephants—and so forth and so forth.

Now I realize I have ruined myself. I am W_{0e} Is Me my own worst enemy. I have exposed my whole life before those modern vivisectionists, the army of amateur psycho-analysts.

Third: Exercise. Great muscular exertion should be avoided, but the setting-up exercises that I advise, if begun with modera-*Exercise* tion and increased gradually, will undoubtedly stimulate the appetite and help the body functions to be better performed.

Fourth: Since food is the only source of body substance, you must gradually train *Food* your stomach so that it can care for enough food to not only supply your bodily energy, but to leave a little excess to be stored as fat. If you have a small appetite—and many of you have—your stomach is undoubtedly contracted, and you must gradually add to the amount you have been eating, even though it may cause some distress, until you *Your* have disciplined it so that it can handle what *Stomach* you need without distress. The stomach is a muscular organ and can be trained and exercised somewhat as other organs can. You will not have much appetite at first, but it will

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develop. Sometimes a short fast for a day or two, drinking nothing but pure water, seems to be beneficial in the beginning.

Do not drink much with your meals, unless the drink has food value by the addition of lots of cream or sugar, or both.

Eat More Decide how many Calories you need for your activities, gradually add to your dietary until you have reached that number, and then some more, and you will gain as surely as the overweight individual will lose by doing the opposite. It may take a long time, or you may get results very rapidly, depending somewhat upon the individual characteristics. Gradually increase your butter, cream, sugar, chocolate, and so forth, as they are very high in food value.

> Study the Key to the Calories and reckon your Calories every day for a while. You have already noticed that the foods that you like are low in food value.

> Here are some of the things you can take to add to your fuel:

se A glass of milk, hot or cold, taken between meals and before retiring, will add about 500 calories.

Cream sauce on your vegetables will add to their value.

Try Some of These Cod-liver oil, or olive oil, or cream, begun in small doses and gradually increased.

One malted milk, made with milk, syrup, egg, ice cream, whipped cream, and the malted milk, will add about 500 calories.

You remember the painful time that I spoke of when there was so much more of me than there ought to be? Well, the aforesaid concoction, made with milk, syrup, egg, ice cream, whipped cream, and the malted milk, was accessory before the fact, and also Learned particeps criminis before the law.

I absorbed this phraseology by being president of the Professional Woman's Club, with its high-class women attorneys, ministers, dentists, Ph.D.s, and "Medical Trust" doctors.

"Medical Trust."—The American Medical Association (A.M.A.), a powerful trust you *Explanatory* can't get into unless you have a high prelimin-*Note* 1 ary education and are a graduate of a highclass medical college. Eleven years' training after the grammar school is their minimum standard now.

"League for Medical Ignorance."—The socalled "League for Medical Freedom"; the *Explanatory* opponent of the above mentioned trust. *Note* 2 Their standard—any old kind of a medical or religious training, two weeks or longer, engrafted on anyone who has the money to pay for the course. No education, no barrier; in fact, those of limited education make the loudest boosters for the league. In justice, I must say that many splendid, estimable persons belong to this league, not knowing these facts.

Thorough Mastication It is as important for you as for them. (It always makes me mildly furious when I look up a word and am directed to seek some other locality. If it affects you that way—seek

> page 58 in my advice to you.) Also have your teeth X-rayed. Blind abscesses at the roots will cause all sorts of aches and pains, as well as underweight.

Especially About Your Ailments

Organ Recitals Wednesday Evenings Only Sixth: Don't talk so much. See if you can't leave out two-thirds of the totally unimportant, uninteresting details. A tremendous amount of energy is used in talking. This habit I would not say was confined to you, by any means; it is another one of those pretty nearly universal errors.

I will not give you a sample fattening menu, for it might be all out of proportion to what you could handle, and it would upset you. Make out your own menus, realizing that you must work gradually to the desired amount.

I am taking it for granted that you are organically sound, that your scientific, educated physician has said there is nothing the matter with you, except perhaps your "nervous" disposition.

Have I not been nice to you? All right, relax and watch yourself get into the class of the plumptically adequate.

And if you don't succeed after a faithful trial, take the milk-cure, with its three to six weeks' absolute rest.

Recapitulation

- 1. Calm yourself.
- 2. Sleep.
- 8. Exercise.
- 4. Food.
- 5. Masticate.
- 6. Delete the details.
- 7. Milk-cure.

Review

1. Repeat Elbert Hubbard's advice.

2. Give three reasons why worry can make you thin.

Review

3. Define "Medical Trust" and "League for Medical Freedom."

4. Memorize paragraph about nature.

5. Enumerate the things you can eat to increase your calories.

VII

EXERCISE

It is practically impossible to reduce weight through exercise alone, unless one can do a tremendous amount of it. For the food that one eats is usually enough to cover the energy lost by the exercise.



Light On Your Feet

However, exercise is a very important feature of any reducing programme; not because of the fat that is burned up in the exercise—and there is some burned—but for the reason that it is necessary to keep one in a healthy condition. The muscles, the internal organs, the bones, the brain, are all benefited—in fact, the entire system. The exercises described hereinafter will help make you fat or thin, and they will keep you supple, graceful, and light on your feet, so that when I tell my husband that he must dance with you, Madam, he will not say, "Nothing stirring," and when you, Professor, ask me to dance, I will not curse the day I was born.

If you have not been accustomed to exer-
cise, I warn you to take up only one or two at
a time and do each one a few times only. You
will be atrociously sore, and you will realize
that you have muscles of which you wotted
not.

However, persist, if you are sure there are no organic reasons why you shouldn't—such as a weak heart. (In case you are very much overwieght, I think it advisable to wait until you have reduced somewhat.)



Duty Dances

Or Classic Dancing

It is splendid if you can belong to a gymnasium or to a physical culture class, but ten to fifteen minutes' systematic daily exercise practised with vim, and each set followed by deep breathing, will do more good than a gymnasium spasmodically attended. Brisk walking with a long stride isn't so bad; in fact, if taken with a very long stride it will twist 'most every organ you have in your body. There are hundreds of exercises you can take. If you will notice little rascal's illustrations you will find many good ones. Those illustrating the beginning of this chapter are excellent.

If possible, it is best to take the exercises on arising in the morning, but if you have a household to care for you may not be able to do so. For those who have to do their own work, it may be well to do the work first. You can do it in half the time if you plan it carefully and speed up. (This advice is not for my thin friends; their speedometers register too high already.) It does not matter so much when the exercises are done as that they are done, and done every day for the rest of your life, with the possible exception of two or three days a month.

Gallstones, permanent stiff joints, and other little things like that will have a hard time forming.

My Exercises

(The services of my noted artist I was able Muscles to obtain with great difficulty, as he was engaged in the more important work of making a swagger stick. I finally secured him by the promise of an ice cream cone and twenty-





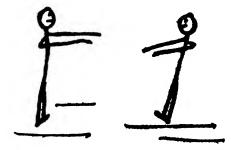
They Reach Most of My three cents to go with his two cents so that he could buy a Thrift Stamp. He is given due credit opposite the foreword.)

Turn On Your Music These exercises executed with vim, vigour, and vip—deep breathing between each set will take ten to fifteen minutes. Re-read my warning.



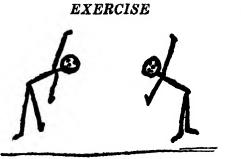
Little Movements with Meanings All Their Own

> 1. Feet together, arms outstretched, palms up, describe as large a circle as possible. Fine for round shoulders and fat backs. Do slowly and stretch fifteen times. Smile.



2. Arms outstretched, swing to right and to left as far as possible at least 15 times each.

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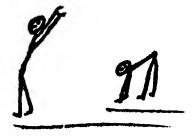


Important ! Keep Facial Expression Throughout as per Artist's Idea

8. Bend sideways, to right and left, alternately, as far as possible at least 15 times each.



4. Revolve the body upon the hips from right to left at least 10 times, and left to right the same.



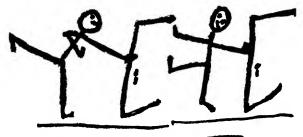
5. Bend and touch the floor with your

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fingers, without bending your knees, at least 15 times.



6. Knee-bending exercise, at least 15 times. This is hard at first.



7. Hand on door or wall, swing each leg back and forth at least 15 times. To the side 15 times. Turn head, raise arm, and tense both.

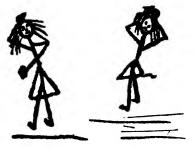
You Will Soon Be as Graceful as Annette



EXERCISE

8. Step on chair with each foot at least 10 times. This is good for calf and thigh muscles. After a while you won't look as though you needed a derrick to get onto a street car.

9. Arms on sides of chair. Come down and touch abdomen. Fine for back and abdomen. Fifteen times.



It Has Been Called to My Attention that Bone Back

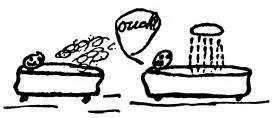
10. Brush hair vigorously at least 200 double Bone Back strokes all over the head, N.S.E.W., using a Should Not brush in each hand. Be Used by

(Military brushes are best. If you can't Some; i.e., purloin a set of your husband's, two ordinary Danger in brushes will do.) Now shake out the loose Affinities

74 DIET AND HEALTH

Good Exercise and must not be omitted, for it accomplishes two purposes. It is a good arm and chest exercise, and it gives a healthy scalp absolutely free from the dandruff.

NOW



This for a few minutes, followed by this, the hot preferably at night.

VIII

AT LAST! HOW TO REDUCE

THE title of this chapter indicates to whom it is addressed. All others please refrain from reading, for it is strictly private and confidential, and is intended only for those who need it.

You thin and you normal had better save it, though, for you may qualify later. You are keeping right on reading now! I'm surprised. I wanted to tell my fat friends that the first thing they have to do is to get control of their will power, and now I can't do it.

Somehow, will power with a layer of fat on it gets feeble. Don't laugh, you too thin! It gets worse than feeble, if there is no fat at all and the nervous system is starved, it---well, I won't say what it does, for I don't want to worry you. Now That

Will power, being feeble to a greater or less Order Is degree, must be bolstered and aided a bit, to I Will begin with, so— Resume

First Order



Watch Your Weight !

Tell loudly and frequently to all your friends that you realize that it is unpatriotic to be fat while many thousands are starving, that you are going to reduce to normal, and will be there in the allotted time. If you belong to a club, round up the overweights and form a section. Call it the "Watch Your Weight— Anti-Kaiser Class." Tax the members sufficiently to buy a good, accurate pair of scales. Meet once a week to weigh. Wear approximately the same weight clothes, and weigh at the same time in relation to eating. Do this whether or not you belong to a club. Once or twice a week is often enough to weigh. Scales vary, so try to use the same ones.

Don't be discouraged if some day after you have dieted well you seem to have gained. Nature sometimes seems fiendish that way. The excess weight is probably due to a retention of water, and will not be permanent. However, don't depend upon this too often ! Usually, if you have gained when you think you ought not to, it is because Nature has been counting Calories and you haven't.

Have the members listed on a weight chart conspicuously placed near the scales, and record accurately the weight weekly.

Nature Always Counts

AT LAST ! HOW TO REDUCE 77

Those not reducing at least one pound per week to be fined soundly and the proceeds given to the Red Cross. That won't be a

WATCH YOUR WEIGHT ANTI-KAISER CLASS													
Normal	Weight on												
Weight	Date	Date	Date	Date	Date	Date							
	Normal		Normal	Normal Weig	Normal Weight on	Normal Weight on							

good way to raise funds for the chapter, No though, for there will be no fines after the Funds first week or so, when the members find what for the their maintenance diet should be and are Red Cross consuming less than that.

I will explain this maintenance diet business. You shameless thin ones, call back your more polite comrades—this is important for all of you. (I shall also tell you more fully about this in the last chapter.) MaintenanceThe maintenance diet is one which main-
tains you at your present weight, *i.e.*, you are
not gaining or losing. You may be over or
under normal, but are staying there. The
intake equals the outgo.

When you eat less than your maintenance diet, you are going to supply the deficiency with your own fat.

So commit yourself on your honour that you are going to reduce or perish—no joke; you can't tell how near you are to it if you are much overweight. There are two general stages of fatty heart. In the first stage the heart is surrounded by a blanket of fat, and it also penetrates between the muscles. Later, if it goes on too long, the heart muscle itself Good-night ! degenerates to fat, then—

> Shakespeare warns you to make thy body less, hence thy grace more; leave gormandizing, and know that the grave doth gape for thee thrice wider than for other men.



AT LAST ! HOW TO REDUCE 79

Second Order

Your stomach, long used to an excess of food for your needs—it may not be a large amount—but still, I repeat, being used to an *Shrink* excess of food for your needs, your stomach *Your* must be disciplined. It is undoubtedly distended, as it should not be.

A good way to show it that you are master is to fast for at least one day—drink nothing but pure water, hot or cold, as you prefer. It will protest vociferously and will tell all its friends, the different organs of your body, *Shrink* how you are persecuting it, and they will join *Your* the league against you and decide they will oust you from your position, and you will feel like—but don't mind it; it will soon know that you mean business, and, much chastened and considerably contracted, will take the next day a very small amount of food very gratefully.

If you do not want to be so severe with it, Shrink you can allow it five glasses of hot or cold Your skim milk or buttermilk, one every three hours, say, at 10, 1, 4, 7, and 10 o'clock. One glass is 80 Calories, five equal 400 Calories, which is not so much.

The baked potato and glass of skim milk Or Mashed

diet, three times a day one day a week, which has its devotees, depends upon its low caloric content for its results. There is no magic in it, no yeast business which reduces. This is most wholesome, however, for potatoes contain a large amount of the potassium salts, which tend to counteract the effects of uric acid, and thus are good for the gouty type.

The beefsteak, the milk, and the fruit diets are also good. One can gain as well as lose on the milk diet, all depending on number of Calories consumed, and it is an excellent method for both. The beefsteak diet is beneficial for a short time, but too much protein over a long period has been shown to be harmful. An exclusive fruit diet is excellent for reduction.

Low Calorie days can be repeated once a week if necessary in order to keep the stomach in good order. Fruit juice, one-quarter glass, or fresh fruit, can be substituted for the skim milk, and you may prefer it.

You could keep on this for some time, or fast for some time, and probably be much benefited. I fasted five days once, or rather fruit-juiced five days. I lost about ten pounds, I think, and my heart, which had begun to carry on, was relieved.

It was during that period of which I have

Mono-Diets

But You Do Not Have To

AT LAST ! HOW TO REDUCE 81

spoken, and of which I am ashamed; for I had my M.D. degree then and should have known better. But you know we have good Sob Stuff authority that it is easier to teach twenty what were good to be done than to be one of twenty to follow our own teaching.

Third Order

Now you will have to reckon on the amount of food or number of Calories you need per day. Review the rule I have given. You find for your age and normal weight that you will need, let us say for example, 2200 Calories. You have probably been consuming twice that You Are amount and either storing it away as fat or Down to as disease. (It is surprising how small an Excess will gradually add up pounds of fat. For instance, three pats of butter or three medium chocolate creams a day, if over the And Maybe maintenance limit, would add approximately Diabetes 27 pounds a year to your weight!)

Now you are to reduce your maintenance diet—the 2200 Calories we are taking for example—to 1200 Calories—quite a comfortable lot, you will find.

You will be surprised how much 1200 Calories will be if the food is judiciously selected. After All, Hunger Is Much More Agreeable Than Apoplexy You may be hungry at first, but you will soon become accustomed to the change. I find that dry lemon or orange peel, or those little aromatic breath sweeteners, just a tiny bit, seem to stop the hunger pangs; or you may have a cup of fat-free bouillon or half an apple, or other low Calorie food. (Count the Calories here.)

One thousand Calories less food per day equals four ounces of fat lost daily—approximately 8 pounds per month. If you do not want to lose so fast, do not cut down so much.

Fourth Order

You may eat just what you like—candy, pie, cake, fat meat, butter, cream—but—count your Calories ! You can't have many nor large helpings, you see; but isn't it comforting to know that you can eat these things ? Maybe some meal you would rather have a 850-Calorie piece of luscious pie, with a delicious 150-Calorie tablespoonful of whipped cream on it, than all the succulent vegetables Luther Burbank could grow in California.

My idea of heaven is a place with me and mine on a cloud of whipped cream.

Now that you know you can have the things

You Register Joy

AT LAST ! HOW TO REDUCE 88

you like, proceed to make your menus con-You taining very little of them. *Registered* Too High

Fifth Order

This is going to be your chief business and pursuit in life for the next few months, this reducing of your weight. However, keep up your Red Cross and all other activities, fast and furiously, so that you won't be thinking about yourself.

Don't reduce more than two or three pounds a week; two or less is better. If you are too cannibalistic, your heart, kidneys and nervous *More* system are liable to suffer—you yourself are *Warnings* supplying too much fat in your dietary, and there are other scientific reasons against reducing too rapidly.

However, you may find that the first week or so you may reduce five or seven pounds; but don't worry about this, for that is a slushy, watery fat that goes easily.

If a claim like a cold should attack you, and after spraying nose and throat frequently with an antiseptic, and then denying the claim vigorously, it persists in running a severe course, better go back to maintenance diet for a few days. Not Even While Cooking Don't "taste"! You will find the second taste much harder to resist than the first. If you have allowed in your daily programme something between meals (a good plan), take it, but not otherwise.

Try not to overeat at any time, and thus undo the work that perhaps has taken you two or three days to accomplish. It will be all right occasionally, possibly one day a week, to eat up to your maintenance diet, but don't, I beg of you, go over it so that you will gain.

You will be tempted quite frequently, and you will have to choose whether you will enjoy yourself hugely in the twenty minutes or so that you will be consuming the excess Calories, or whether you will dislike yourself cordially for the two or three days you lose by your lack of will power.

I Ought Not I am afraid I am going to tell a story. I to Do This feel as though I were, and I don't want to. It is one I heard years ago at a teachers' convention at Riverside, when I was a tender, unsuspecting young school teacher, so it is perfectly good, albeit senile—and it illustrates my point so well—so well—well, you have to put yourself in the place of the little chaps, Billie and Johnnie, of the kindergarten.

> It seems it was customary to bring a lunch, and Little-new-boy had come without one.

AT LAST ! HOW TO REDUCE 85

Teacher asked Billie would he share? No, A Little sturdily; not he. But little Johnnie, he Anatomical would. Some time later, Johnnie, with a Story frantic waving of his hand, and with just pride in his generosity, informed the class that he had shared his lunch with Little-newboy and he felt good in his little heart.

Billie stood his ground and stoutly declared that he ate his and he felt good in his little belly.



IX

AUTOBIOGRAPHICAL

I DID not give our thin friends a sample menu for fear it would upset them; but nothing can upset your digestion, I know. However, I will not give you a sample menu, either, but will tell you what I eat when I go on a reduction régime, which for me is 1200 Calories.

You will notice, most of my Calories I have at dinner in the evening. You may not like this, but would rather have yours spread over the entire day; and you can suit your fancy, for it makes no difference as long as your total number per day stays within your reduction limit.

Don't think you have to follow my menu. You might gain on it! Study the Key and select your own.

Many will lose by going on the no-breakfast plan, or the no-lunch plan. If they do reduce, it is because they have lowered their daily

Make Out Several Menus if You Like consumption of food, and not because of the no-breakfast or no-lunch plan per se.

Fat seems to melt faster when the chief meal is in the middle of the day, and with only 200 or 300 Calories of fruit for the evening meal. In this way you slim while you sleep.

MY BREAKFAST

1 slice very dry coarse bread toast	
‡ in. thick	50 C.
Butter, ‡ cu. in	25 C. Breakfast
Hot water flavoured with coffee	
-	
Total	75 C.

You may prefer many more Calories for breakfast, or none at all. This may not look Slim good to you, but it means an awful lot in my Sleep ! young life, after my exercise and bath, to sit Clever ? down to my little breakfast and read the papers.

Recently I have found that two cups of moderately hot water with the juice of a lemon answers just as well as the toast and watery coffee, and is probably better. You might like some fruit.

DIET AND HEALTH

MY LUNCHEON

Luncheon

1 corn muffin—I am patriotic	125 C.	,
1 pat butter	100 C.	,
1 cup coffee with 1 tbsp. cream	50 C.	•

Total $275 C$	Total	• • • • • • • • • • • • • • • • • • • •	275	C.
---------------	-------	---	------------	----

If you are patriotic and constipated, substitute one bran muffin. You can see that this is in reality a further extension of my sumptuous breakfast. If I get tired of this, I add a salad of

Lettuce, large amount, practically .. 00 C. Roquefort cheese dressing 100 C.

I am very fond of this Roquefort cheese dressing; $1\frac{1}{8}$ in. cube of cheese in a little vinegar, no oil, keeps it within the hundred Calories.

You might prefer a baked apple or two tomatoes, or a dish of prunes, or 3 oz. of cottage cheese. The chief thing is to take what you like, not what I like. Count your Calories.

MY DINNER

Vegetable soup, or bouillon, no fat;	
or small oyster cocktail	25 C.
Lean meat, or lobster or fish, 5 or	
6 oz	800 C.

Dinner

AUTOBIOGRAPHICAL	89	1
Large serving of uncooked lettuce or		
cabbage, practically	00 C.	
Mayonnaise or oil, $\frac{1}{2}$ dsp	50 C.	
1 large dish tomatoes, or cauliflower,		
or string beans, or carrots, or tur-		
nips (I hate turnips—just put them		
down so you can see you can have		
them if you like)	25 C.	•
1 medium slice bread, or 1 medium		
potato	100 C	
1 pat butter	100 C	
100 Calories of your husband's dessert		I Don't Mean Your
Water	00 C	Husband's
1 cup cereal coffee, clear, practically.		Husband's Dessert, I
Total		Mean My Husband's.
	100 0.	My Word !
		I Got Out
		of That Quick !
SUMMARY		L andar
Breakfast	75 C	
Luncheon including salad	875 C	•
Dinner	700 C	
		-

That leaves me 50 more Calories to total 1200, to take before retiring if I am hungry. You should leave this 50 Calories to take before retiring, because if you are hungry you will find it very difficult to go to sleep.

A small cup of hot skimmed milk tends to be a sedative. Hunger, like cold feet, is hard to go to sleep on.

If there is one thing more important than **Both Sexes** another, it is thorough mastication.

This applies to the thin as well as to the fat, and to the child as well as to the adult. Take a moderate mouthful and " rassel " with it until it is automatically swallowed. Chew until it is all gone before you put any more in your mouth. There is no better way of jollying yourself into thinking that you have Sometimes I had all you want than this Fletcherizing habit, and it takes the same time to consume onehalf the amount of food you have been in the habit of eating.

> I will allow you all the water you want, in reason; in fact, I advise it while you are reducing, both at the meals and between meals. The only precaution is that at the meals it should not be drunk while food is in the mouth, for this would tend to lessen thorough mastication.

> Now, Madam and Madam's husband, when are you going to begin this important business of reducing? After the holidays? Tomorrow? No! Right now. The sooner you

Take More Than 100 Calories of Mu Husband's Dessert. I Love Fat Men. But I Don't Want to Be Married to 'Em

For

get started, the better. The chief thing to do, and the hardest, is to get started and to get the habit. After the first three days you will not dread it; in fact, you will feel so much better that you will not be willing to go back to your old habits of overeating.

Now let's review a bit what you are to do.

First: Pledge yourself to your self, and to someone else, so you will be ashamed to fail. There is a great deal of psychology to reduc-*Plan* ing. Use strong auto-suggestion. Decide just *the Day* how much you are going to eat in advance of the meal—so many Calories, no more ! This sounds foolish, but it helps wonderfully.

Second : Begin with a fast or a low caloric diet for the first day; keep it, if necessary, one day weekly.

Third: Study food list and make out menus the caloric totals of which *are less* than your maintenance diet. Have a fairly balanced Low Bridge diet, some fat, some carbohydrates, some on Fats and protein, and a good amount of green vegetables and fruit. Have 200-300 C.s of protein.

Fourth: Masticate every morsel with such thoroughness that it is automatically swallowed.

Fifth: Keep up your activities—Red Cross and other relief work.

Sixth: Remember that you will feel good

in your little heart when you resist temptation to overeat, and when you don't, you won't feel good anywhere.

Seventh: Some vigorous exercise every day. NOTE: If there comes a time when you think you will die unless you have some chocolate creams, go on a c. c. debauch. I do, occasionally, and will eat as many as ten or so; but I take them before dinner, then me for the balance of my dinner—

Total		•		•	•	•	•	•		•	•			•	•	•	•		•	•	•		•	•	50	C.
LUtai	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	٠	٠	٠	٠	٠	٠	٠	90	υ.

And thus, you see, every supposed pleasure in sin (eating) will furnish more than its equivalent of pain (dicting) until belief in material life (chocolate creams) is destroyed.

Review

1. Describe your stomach.

2. If there is one thing more important than another, what is it?

3. Repeat the five orders in Chapter VIII.

4. Repeat the warnings.

5. Work the following example :

X gains 25 pounds during the year. How

There Is Life Substance and Intelligence in Chocolate Creams ! many Calories has he averaged daily over *Review* his maintenance diet?

KEY :

25 lbs. fat = 400 oz. fat.

1 oz. fat represents 275 C. food consumed.

400 oz. = 400 \times 275, or 110,000 C.

 $110,000 \div 365 = 301$ C.

Answer. X has eaten 301 C. per day more than necessary.

6. How many Calories have you averaged daily over your maintenance diet? And what could you have left off your menu and kept from gaining all that weight?

Х

TESTIMONIALS

From AFTER you have reduced or gained, let me the Field share your joys. Write me a little note. You need not sign your name if you don't want to. I anticipate the following :

DEAR DOCTOR:



I am so grateful to you, Dr. Lulu Hunt Peters, for what you have done for me. After reading your book, "Diet and Health, with Key to the Calories" my chronic case of meanness—I mean leanness—was absolutely cured. My weight, which was....now isand I am on my way to normal. I am fond of you.

DEAREST DOCTOR:

I cannot be too grateful to you, dear Doctor Lulu Hunt Peters, for your book "Diet and Health, with Key to the Calories," for I have lost....pounds! My weight was....and now is....and I am on my way to normal.

I should be ungrateful indeed if I did not mention that while reading the book a chronic case of dammdruff which I had had for years, and which had been given up by six specialists, was absolutely cured. I adore you !



DEAR DOCTOR,

For your book, "Diet and Health, with Key to the Calories," words are inadequate to express my thanks. For I have been delivered Afrom a chronic affliction of many years' dura-Demonstration, for which I had tried all known methods tion of cure. I refer to the smoking of cheap cigars by my husband. He suddenly found he had no desire for the noxious weed ! Your arm and leg exercises are wonderful.



\mathbf{XI}

AN APOLOGY AND SOME AMENDMENTS



ON re-reading this literary gem, humorous classic, and scientific treatise on weight reduction and gaining, I see that I have a very intimate mixture of the thins and the fats. But that is as it should be for balance. I had intended to keep you strictly separate, but the preaching, the exercises, the dry definitions, the Key to the Calories, and so forth, was matter that was applicable to both, so it could not be done.

Watch Your Weight I have just got to bring this to a close now, if I have it ready as I promised, for the lecture, "Watch Your Weight!" I am glad of it, too. I am getting so . . . funny it is painful. I will close with the next chapter. It will be beautifully scientific, but not funny, I promise.

SOME AMENDMENTS

Some Amendments

You perhaps have noticed that my first chapter is called "Preliminary Bout," and then I have gone on to describe a club meeting. I am aware that P. B. is a prize fighting term, and I meant it for the picture of me No. 1 fighting myself, not for the club meeting. I have attended many club meetings, and in none of them have I ever seen any fighting that would have taken any prize anywhere, although I will say I have seen and have myself personally conducted some very classy stuff.

I do not use slang. I use only the purest, most refined, and cultured English. I leave slang to those who can get by with it and put No. 2 it over. So where I have used dashes you may use your favourite slang words. Mine were deleted by the censors.

Mrs. Ima Gobbler is not really fat enough to be called a fat ——! She is only 40 or 50 No. 3 (a) pounds overweight, but she is fond of me and I took liberties with her. She is a darling.

She is a purist, too. I called her up after I put her in my book, and I said, "You are fond of me, aren't you, Mrs. Gobbler?" And she said, "Youbetcha." "And you are a good sport, aren't you?" "Surest thing you

(b)

know!" "That's good, for I have said a horrid thing to you. I had to, in order to stop the club discussion." And she responded soulfully, "Go to it, Kid!"

Mrs. Sheesasite's husband did not really have to buy her a pair of freight scales; that is just a gentle josh. The ordinary scales will weight 300 pounds, I believe. She is also a dear.

My husband's eyes are not really green, nor is he cross-eyed. They are the loveliest, softest brown. The green eyes belong on the maternal side of this house.

My artist is not really noted. He is just an ordinary adorable ten-year-old boy kiddie. Aren't his little figures the dearest ever?

All the characters in my book are friends of mine. Perhaps you had better substitute were for are. There was one woman mentioned in my original manuscript and my husband said what have you put her in for Pattie? (a corruption of Pettie, a Honeymoon hangover) she is no friend of yours: she knocks you. And I said loftily like, I want you to know Ijit (corruption of Idiot, also a Honeymoon hangover) I am above personalities she is prominent and besides she is fat especially in the feet and head and she doesn't

No. 5

No. 4

No. 6

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know it and he said that doesn't make any Doing difference you do not have to immortalize her My Bit and I said I would look up the authorities on the subject and he said he was authority enough and I said I would see what the other authorities said anyway and I did and I found one most eminent that said you should love your enemies but none that said you should immortalize them so I said I'd drop her and he said he should say so and so I did.

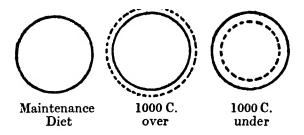


Dear Enemy Unimmortalized

-All the characters in my book are friends of mine. Perhaps you had better substitute were for are.

XII

MAINTENANCE DIET AND CONCLUSIONS



1st Circle

THE HEAVY circle represents the amount of daily food (number of calories) which will maintain you at present weight. It may be your weight is too much or too little, but this is your maintenance diet for that weight.

d 2nd Circle to m

THE SECOND circle represents a daily diet containing more than necessary for maintenance; for example, let us say 1000 Calories more. This 1000 Calories of food is equivalent to approximately 4 ounces of fat [1000 \div 255 (1 oz. fat = 255 C.)]; 4 ounces of fat daily 100 equals 8 pounds a month which will be added to your weight, and, if not needed by the system, will deposit itself as excess fat.

Or the toxins arising from the unnecessary food will irritate the blood vessels, causing arterio-sclerosis (hardening of the arteries), which in turn may cause kidney disease, heart disease, or apoplexy (rupture of artery in the brain), and maybe death before your time.

On the other hand, if you are underweight and the added nourishment is gradually worked up to, it will improve the health and cause a gain of so much (theoretically, and in reality if kept up long enough).

THE THIRD circle represents a diet containing less than the maintenance; again, for example, say 1000 Calories less. Here the 3rd Circle 1000 Calories must be taken from the body tissue, and fat is the first to go, for fat is virtually dead tissue.

This 4 ounces of fat daily which will be supplied by your body equals in six months 48 pounds.

There are in America hundreds of thousands of overweight individuals; not all so much overweight as this, but some considerably more so. If these individuals will save 1000 Calories of food daily by using their stored fat, think what it would mean at this time. Not only an immense saving of food to be sent to our soldiers and allies and the starving civilians, and of money which could be used for Liberty Bonds, the Red Cross, and other war relief work, but a great saving and a great increase in power; for there is no doubt that by reducing as slowly and scientifically as I have directed, efficiency and health will be increased one hundredfold.

If, as illustrated in the third circle, the 1000 Calories or less is eaten and the individual already is underweight, with no excess fat, then this amount will be taken from the muscles and the more vital tissues, and the organism will finally succumb. Before this time is reached there will be a great lowering of resistance, and the individual will be a prey to the infectious diseases.

It must be remembered that in children the growth of the whole body is tremendously active, and especially that of the heart and nervous system.

If the nervous system is under-nourished, it becomes disorganized and undeveloped. This is apt to be expressed in uncertain emotional states, quick tempers, and a predisposition to convulsions. The heart, if under-nourished, lays its foundation for future heart disease, and the whole system will be injured for life.

Savings

Anything that impairs the vigour and vitality of children strikes at the basis of national welfare.

You can see from this how extremely important it is that, in our need for the con-*The Food* servation of food, only those who can deny *Administra*themselves and at the same time improve $tion_{Emphasizes}$ their health and efficiency should do it. It *This* will be no help in our crisis if the health and resistance of our people be lowered and the growth and development of our children be stunted.

We, the hundreds of thousands of overweight citizens, combined with the hundreds of thousands of the normal who are overeating to their ill, can save all the food that is necessary. We are anxious, willing, eager to do this. Now we know how, and we will.

> Food Will Win the War WATCH OUR WEIGHT!

\mathbf{XIII}

THREE YEARS LATER

February 1, 1921

An Added Chapter in which Are Offered Twenty-one Suggestive Menus

AFTER nearly two years with the American Red Cross in the Balkans I return to find the little book has been carrying on in my absence —I write this for the fifth edition—and my publishers insisting that I must furnish some more menus. They affirm that there are many who do not care to or cannot figure out their own.

After being so long under military discipline I obey now instinctively, although I do not want to do this. But you know publishers. They say that if there are menus for those who do not have the desire to compute them, the usefulness of the book will be increased. Publishers are so altruistic.

Now far be it from me to scorn the possibility of increased sales myself. So I comply, and after you are reduced you will have the energy and the increased keenness to scout around in the Calories and make out your own.

A little of my Balkan experience in the reducing line may not be amiss. In Albania, where I was stationed most of the time, life is very strenuous. We all had to work hard and expend a great deal of nervous energy. Medical calls on foot in the scorching sun over unkind cobblestones, long distance calls on unkinder mules, long hours in nerve-racking clinics, ferocious man-eating mosquitoes, scorpions, centipedes, sandflies, and fleas, and other unspeakable animals kept us hopping and slapping and scratching.

But there was one consolation to me. With this work, more intensive and more strenuous than I had ever done before, I would not have to diet—I would not have to watch my weight—I would not have to count my Calories! Oh, joy!

We lived a community life, we Red Crossers. We had plain blunt food, American canned mostly, supplemented with the fare that could be eked out of Albania, and cooked by an Albanese who could not be taught that we Americans were not Esquimos and did not like food swimming in fat. However, it tasted good to famished Red Crossers, and I ate three meals a day, confident that I would retain my girlish middle-aged slenderness and not have to diet. We had no scales and no mirrors larger than our hand mirrors. Our uniforms were big and comfortable.

The French who are in charge of Scutari depart, the officers leaving to us some of their furniture, including a full length French plate mirror. Ordinarily when I look in a full-length mirror I don't hate myself so much ---so it is with some degree of anticipated pleasure that I complacently approach, to get a life-size reflection of myself after many months of deprivation of that pleasure.

"Mon Dieu!" I exclaim. "Bogomi!" (Serbian-" For the love of Allah!") " This is no mirror," I mutter. "This is one of those musee things that make you look like a Tony Sarg picture of Irvin Cobb."

"What's irritating you, Dockie?" asks one of the girls, coming up and standing back of me. I look at her reflection. She does not look like Irvin Cobb!

"Peggy," I say tragically, "Peggy, do I look like my reflection?"

"Yes, dear, we have all noticed how stout you have been getting. Aren't you supposed

to be some shark on the subject of ideal weight?"

And the bitter truth is borne in upon meno matter how hard I work-no matter how much I exercise, no matter what I suffer, I will always have to watch my weight, I will always have to count my Calories.

This is what I did then :

I stopped going to the breakfast table. I kept some canned milk and coffee in my room, and made me two cups of coffee. For lunch I ate practically what I wanted, limiting myself to one slice of bread or one potato (we had no butter), with fruit for desert. For dinner I came down only when the dessert was being served, and had a share of that with some coffee. I was jeered and derided. You know how in community life we are all as disagreeable as we like, and still love each other. Did not I know the desserts were the most fattening part of the meal? I was some authority on how to reduce, I was !

In vain I told them that it did not matter so long as my total caloric intake did not equal the number that I needed. It was not until some months after, when they saw that I was normal weight again, that they began to realize I knew whereof I spoke.

Then came our withdrawal from Albania

and release from duty. After months of canned goods came Paris with its famous dishes; Crême d'Isigny avec crême! Artichauts au beurre! Patisseries francaises! Oo lala! Again I said Calories be dashed! I can reduce when I get home. I had no delusions now, you see.

And now I am home trying to help raise the funds for the starving children of Central Europe, and explaining to my friends that while there is a food shortage in Europe it is not because I was there; and that I am reducing and the money that I can save will help keep a child from starving, and that they can do the same; that for every pang of hunger we feel we can have a double joy, that of knowing we are saving worse pangs in some little children, and that of knowing that for every pang we feel we lose a pound. A pang's a pound the world around we'll say.

Every once in a while you hear that the Caloric theory has been exploded. There is no Caloric "theory." Therefore none to explode. Calories are simply units for measuring heat and energy and never will be exploded any more than the yard or metre "theory" will be exploded. Foods must contain essential salts and the growth and health main-

taining elements. These cannot be measured by Calories. The quantity of heat or energy production but not the quality of the foods is measured in Calories, and one must have a knowledge of the qualities also. No scientifically educated individual has ever thought otherwise.

The chief objection to following the advice of the numerous laymen who write eat-andgrow-thin menus is that they advise the elimination of all fats, sugars and starches. They lose sight of the fact, or they do not know, that the obese individual-I dislike that term -will have to have a balanced diet even while reducing if he is to maintain his health. One will lose weight on these menus, but as very many can testify they lose their health also. One cannot live on an unbalanced diet for any length of time without becoming unbalanced also. And furthermore the over-weighter will always have to diet more or less, and will have to have menus which he can continue to use. After normal weight is reached he will not have to be nearly so abstemious, but the same dietetic errors which produced overweight in the first place will produce it again. So he must know something of dietetics and he must have a balanced diet.

Now I shall make out some balanced menus,

1200 C.s a day, being careful to include a large amount of the leafy vegetables and some milk or its products, the foods that McCollom calls PROTECTIVE FOODS because they contain in a large measure the essential mineral salts, and those vital elements he has called "Fat soluble A" and "Water soluble B"—others call vitamins—which he has proved to be so vital and necessary for growth in the young and the maintenance of health in the adult. I shall also include 200–300 C.s of protein.

The leafy vegetables, cabbage, cauliflower, celery tops, lettuce, onion, turnip tops, and other leaves employed as greens, watercress, etc., not only contain these vital elements, but they also exert a favourable influence on sluggish bowels and kidneys. They are low in caloric value, hence are low in fat-producing properties, and can be consumed with indiscretion, properly masticated.

It is better while you are reducing to stay away from the dining table when you do not expect to eat. If you are rooming, get a tiny coffee machine, some substitute or coffee, some canned or dry milk, some sugar if you use it, and you can make a hot drink in your room and be independent for your breakfast and your evening meal, when you decide some day to go without that. Do not take more than 100 Calories for your breakfast. That leaves you 1100 Calories to be divided during the day if you go on a 1200 Calorie schedule. I suggest the following distribution of the Calories :

Breakfast	100 C.s.
Lunch	350 "
Теа	100 ,,
Dinner	650 ,,

You can reverse the dinner and lunch if you desire. If you do so then have your 100 Calories I have allowed for tea time to take just before you retire. On a 1200 Calorie schedule arranged as I have it you will not be hungry, I assure you. It will not be more than three or four days before your stomach will be shrunk and this amount I have allowed you will almost seem like overeating ! That is the big idea. Shrink your stomach. Go on a fast or low Calorie day for a day if necessary to get started. See page 79.

I can safely say that any up and around adult will reduce on 1200 Calories, for that will not supply the basal metabolism, i. e. the body's internal activities, such as the beating of the heart, respiration, digestion, excretion, etc., and some of the body's stored fat will be called upon to supply the deficiency. How much one will reduce depends on how many Calories are actually needed for the internal and the external activities. See pages 25 and 26. It is not advisable to reduce too rapidly. See page 83.

Now you have 1200 Calories a day to eat. Let us think of this in terms of money. You have a limited amount of money every day to spend for food. You must spend it judiciously and get the food you need and want. If you spend the most of it on one article you have that much less for other things. It is possible that some days you will want to spend more than your allowance and you draw on your next day's supply. That will be all right if you remember that you have done so and will spend that much less the next day to equalise your account. You must study to spend wisely and carefully so as to supply your needs, but you cannot spend more than vou have without restitution and retribution.

Here are the menus:

BREAKFASTS

100 C. Each

- 1. Fruit
 - 2 med. apples or 1 baked apple with 2 tsps. sugar

1 large orange or 1 large grapefruit or 1 small cup berries * or 1 good sized cantaloupe or 2 med. figs or 5 prunes 1 cup coffee 2. 1 tbsp. cream..... 50 C. 2 small tsp. sugar 50 C. 2 cups with cream alone or sugar alone 10 ozs. skim milk hot or cold 8. or 1 cup coffee clear \dots 0 4. 1 thin slice toast 75 C. $\frac{1}{2}$ pat butter 25 C.

NOTE.—The skim milk breakfasts and teas are most desirable because of the protein content.

^{*} Strawberries, raspberries, blackberries, or any kind of berry in season.

TEAS

		100 C. ea	ch
	See list for breakfasts.		
	Also cou	ld have :	
1.	1 cup tea w	ith 1 tsp. su	Igar
	1 slice lemo	n	. 25 C.
	3 soda crac	kers	. 75 C.
	Total	••••	100 C.
2.	2 small pla	in buns	
	tea no cre	eam or suga	r100 C.
3.	1 chocolate	cream	
	1 cup tea or	hot water	
	no cream	or sugar	100 C.
	* *	*	* *

The following combinations need not be followed arbitrarily. You may change them around if you desire. Look in the Calorie lists for substitutes of the same classes of foods, if you do not like my combinations. If you don't care for the 100 C.s at tea time you may have that much more for dinner.

1200 C. DAY ON ARISING

2 cups hot water with a little lemon juice. 10-minute exercise at least

BREAKFAST

Coffee with cream or sugar

or

10 ozs. skim milk (see list of breakfasts). 100 C.

LUNCH

1 medium sized head lettuce 1 lb 25 C.
1 tbsp. mayonnaise 100 C.
1 med. sweet pickle chopped for
mayonnaise 25 C.
$1\frac{1}{8}$ in. cube cream cheese melted
or
3 ozs. cottage cheese 100 C.
1 toasted French roll (no but-
ter) 100 C.
Total

TEA

8 crackers with tea and 1 tsp. sugar and 1 slice lemon or
10 ozs. skim or buttermilk or
100 C. fruit (see list).....100 C.

DINNER

Creamed corned beef on toast Corned beef 4 thin slices 4×5 in..... 100 C. Cut fine and crisped in frying pan with $\frac{1}{2}$ tbsp. butter 50 C. 1 tbsp. flour browned with above 25 C.

Add 1 cup skim milk (7 ozs.) cook gently 70 C.	
245 C.	
2 slices crisp toast (pour above	
over)	
1 large serving raw celery or	
raw cabbage 15 C.	
1 large baked apple with 1 tbsp.	
syrup	
\mathbf{J} alogg alring mills (7 or \mathbf{J})	
1 glass skim milk (7 ozs.) 70 C.	
Total	650 C.
Grand total	1200 C

1200 C. DAY

ON ARISING

2 cups hot water, with a little lemon juice.

10-minute exercise at least

BREAKFAST

Coffee with cream or sugar

or

10 ozs. skim milk (see list of breakfasts)100 C.

LUNCH

TEA

3 biscuits with tea with 1 tsp. sugar and 1 slice lemon
0r
10 ozs. skim milk or buttermilk
0r
100 C. fruit (see list)......100 C.

DINNER

Broiled halibut (or lean beef)
steak 4-5 ozs. with lemon150 C.
Lettuce (no oil) average serving 0
1 slice whole wheat bread or roll 100 C.
$\frac{1}{2}$ pat butter
Dessert $\frac{1}{6}$ pie
1 cup clear coffee 0
Total650 C.
Grand Total

1200 C. DAY

ON ARISING

2 cups hot water with a little lemon juice. 10-minute exercise at least

BREAKFAST

LUNCH

Combination salad
Shredded lettuce 10 leaves 0
1 large tomato 50 C.
6 stalks chopped celery 15 C.
tender leaves included
$\frac{1}{2}$ med. cucumber 15 C.
1 med. grated carrot 20 C.
100 C.
$\frac{1}{2}$ tbsp. mayonnaise or oil 50 C. with vinegar or lemon
1 slice whole wheat bread100 C.
10 ozs. skim milk or buttermilk 100 C.
Total

TEA

3 crackers with tea with 1 tsp. sugar and 1 slice lemon or
10 ozs. skim milk or buttermilk or
100 C. fruit (see list).....100 C.

DINNER

Croquettes of split peas or beans 1 cup mashed beans or peas 1 cup toast crumbs 1 tsp. cream or canned milk made into croquettes and baked or broiled......225 C. Stewed tomatoes 8 ozs.

or
1 large fresh tomato 50 C.
1 slice bread or 5 small pretzels.100 C.
1 double serving lettuce or
chopped cabbage or cauli-
flower 15 C.
1 slice lemon, custard or squash
pie, no top crust
1 cup clear coffee or postum 0
Total
Grand Total1200 C.

1200 C. DAY

ON ARISING

2 cups hot water with a little lemon juice. 10-minute exercise at least

BREAKFAST

Coffee or postum with cream or sugar

or

10 ozs. skim milk (see list of breakfasts) 100 C.

LUNCH

	Tult salau	
1	large orange100	C.
1	average apple 50	C.
	small banana100	

Empit colod

2 tbsps. lemon juice 10 C. 2 small teasps. sugar 40 C. 800 C. Sprinkle with 1 tbsp. grapenuts. 50 C.

1

TEA

3 crackers with tea with 1 tsp. sugar and 1 slice lemon
or
10 ozs. skim milk or buttermilk
or
100 C. fruit (see list)100 C.

DINNER

12 moderate sized oysters
375 C.
2 small slices crisped bacon 50 C. 1 small dish chow chow with
lettuce 25 C.
1 slice bread or its equivalent. 100 C.
h pat butter 50 C. Dessert 1 medium baked apple
with no sugar 50 C.
Total
Grand Total

1200 C. DAY

ON ARISING

2 cups hot water with a little lemon juice 10-minute exercise at least

BREAKFAST

Coffee or postum with cream or sugar

or

10 ozs. skim milk (see list of breakfasts)100 C.

LUNCH

TEA

3 crackers with tea with 1 tsp. sugar and 1 slice lemon

or

10 ozs. skim milk or buttermilk

or

DINNER

2 toasted shredded wheat bis-	
cuits	
2 glasses skim milk 150 C.	
1 dish stewed prunes	
8 with 1 tbsp. syrup 200 C.	
10–12 peanuts	
Coffee, postum or tea clear 0 C.	
Total	650 C.
	1000 0

Grand Total1200 C.

1200 C. DAY ON ARISING

2 cups hot water with a little lemon juice. 10-minute exercise at least

BREAKFAST

Coffee or postum with cream or sugar or 10 ozs. skim milk (see list of breakfasts)100 C.

LUNCH

6 ozs. cream soup,

Potato, tomato, clam chowder, etc. (use skim milk) ...200 C. Shredded cabbage, lettuce, celery

or any greens—average helping practically 0 C.

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 $\frac{1}{2}$ tbsp. mayonnaise or oil

or

1 tbsp. cream dressing	50 C.
2 soda crackers	50 C.
1 average apple	50 C.
-	
Total	

TEA

8 crackers with tea with 1 tsp. sugar and 1 slice lemon or
10 ozs. skim milk or buttermilk or
100 C. fruit (see list).....100 C.

DINNER

Carrot and cottage cheese salad (The Home Dietitian—Comstock) ½ cup ground carrots ½ cup chopped nuts 3 ozs. cottage cheese ½ large lemon (juice of)250 C. 8 ozs. consomme, no fat..... 80 C. 4 crackers or 1 roll or slice bread 100 C. ½ pat butter 50 C. Average helping lettuce or other greens—no oil...... 0 C. Dessert — gelatine pudding, average serving......120 C. Whipped cream 1 heaping tbsp. 100 C. Coffee or postum or tea clear. 0 C.

1200 C. DAY

ON ARISING

2 cups hot water with a little lemon juice. 10-minute exercise at least

BREAKFAST

Coffee or postum with cream or sugar or 10 ozs. skim milk (see list of breakfasts)100 C.

LUNCH

Baked beans if canned 3 h. tbsp., if home Pickled beets 5 med. slices.... 25 C. Large amount celery or lettuce or other green leaves 25 C. 1 slice toast or 1 roll100 C. 1 cup coffee or postum clear ... 0 C. Medium apple..... 50 C. TEA 3 crackers with tea with 1 tsp. sugar and 1 slice lemon or 10 ozs. skim milk or buttermilk or

DINNER

Cottage cheese omelet
2 med. eggs160 C.
3 ozs. cottage cheese100 C.
1 tbsp. cream
or
condensed milk 50 C.
810 C.
Salt to taste
Bake or fry gently in $\frac{1}{2}$ tbsp.
fat 40 C.
(Can substitute 100 C. chop-
ped lean meat for cottage cheese)
1 small head celery, tender leaves and all 25 C.
1 slice bread or equivalent100 C.
Butter $\frac{1}{2}$ pat
1 dish plain stewed tomatoes,
squash, carrots, spinach or
onions, etc 25 C.
5 almonds or 5 peanuts or 2
large walnuts
10 raisins
Total650 C.
Grand Total

Finished But Not Famished

WEEKLY WEIGHT CHART									
Month	1st Week	2nd Week	3rd Week	4th Week	5th Week				
,									

TOTAL C. PER DAY									
Month	Sun.	Mon.	Tues.	Wed.	Thur.	Frt.	Sat.		
			-						
1									

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