

**Series of Laboratory Tests Made on Men Subjects Discloses Some Interesting Points; Diets Determined.**

(United Press Leased Wire.)  
Washington, June 3.—Man is just a machine. If you do not believe it, ask the federal department of nutritive investigation, a part of the bureau of chemistry. Dr. C. F. Langworthy, who is chief of the department, will tell you and give facts and figures to prove it.

that your anatomy is just like any other engine. You have a maximum capacity machine, and you must learn to use it to generate this certain amount of food is necessary. The best kind of food or fuel to be used varies with the individual engine and Dr. Langworthy today told how his department does its work.

At the University of California, in this workshop, surrounded by an endless series of laboratory instruments, ovens, graduated scales and queer tubes and pipes, where everything under the sun is concocted and cooked up, to see how many calories, how much nitrogen and how much oxygen will give the human body when it's eaten.

In the laboratory is a respiration calorimeter, a chamber in which Uncle Sam's scientists put subjects to measure the energy while the subject gives out the energy. The engine makes heat and while it does different diets of food.

When the bureau of chemistry starts decide that it will be a matter of national import to know just the medium or energy that a diet of stewed beef, bread, beans and radishes generate, they feed their subject, put him in the calorimeter, set him to work pedalling something that looks like a bicycle and then stand around and watch the dials and thermometers.

**Valuable Instrument.**

Incidentally, to discover the amount of energy generated in that a man engaged in hard mental work gives off, they get a subject who has a particularly brain puzzling task to perform and watch him. The last subject was a college student who had to pass a very bright examination. He spent a couple of hours in the calorimeter, alternately studying and resting. When he rested he lay upon a couch at ease and read if he wanted to, or just dozed. At all times the scientists watched the thermometers, taking copious notes.

The apparatus is what a man engineer is in many ways. It enables the government to recommend certain diets as being of the greatest use to men and women in different occupations and it enables them to recommend a combination of foods that are cheap, but at the same time sustaining.

The apparatus itself is six and a half feet square, and of the same height. There is a window in the side to permit light for reading or studying, a couch to permit the subject to lie down, a pipe through which the air is drawn, and a pipe through which it is expelled. The expelled air is caught an dits components analyzed, for part of the food you eat is

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