SUCH IS LIFE—Poor Grampaw!



Montana Dam Noted for Grandeur of Its Setting

Stores Water From Glaciers, Melting Snows

Red Lodge, Mont.—In the gnarled hinterland of the towering Beartooth mountains man has taken a sevenleague step in his age-old feud against drouth, the perennial libertine of crops.

Glacier lake dam, the highest and most isolated structure of its kind in America, located 24½ miles by road and foot trail south of here, has been completed and accepted by the Montana water conservation board.

Built as a supplemental reservoir to supply water to 54,000 acres of rich farm land in Rock creek valley from Red Lodge to Silesia, Glacier lake dam is notable for the spectacular grandeur of its setting and its extreme isolation.

Solid Rock Foundation.

Carved from a rock-ribbed pali-sade, unfathomed Glacier lake is nourished by everlasting glaciers and melting snows. At an elevation of 9,750 feet the lake is surrounded by peaks from 11,000 to 12,000 feet

The dam is a rock-filled project with a maximum height of 52 feet

GASSING 'EM UP



The hands that used to pump them down the alley in the baseball season, now serve Dizzy Dean in get-ting the "go fluid" down the tanks of cars that pull up at his filling station at Bradenton, Fla., where the Cardinals have established their training camp. The colorful pitch-er, it seems, has got wise to himself because he's selling gas in liquid form now, where formerly he dispensed freely of the airy variety.

(5 feet freeboard), with a crest of 730 feet and a top width of ten feet. The upstream slope is 1:1; downstream slope, 1½:1, and foundation

and abutments are in solid rock.

The back or downstream part of the dam is composed of rock fill. Most of the rock varied from two to ten cubic feet while being loaded by hand. After the shovel came on the job the rocks averaged one cubic yard in size. Voids were well filled with rock which graded down to three inches.

On the upstream face is a hand-placed rock rubble wall which varries from four to six feet in thickness. The face was grouted. On the grouted face was placed a concrete slab, reinforced with electric welded fabric, varying from six to twelve inches in thickness

Tunnel Taps Lake.

Across and beneath the present outlet of the lake a tunnel 6 by 41/2 feet wide and 115 feet long was drilled. The tunnel taps the lake about six feet below the normal August level and forms a permanent outlet for the reservoir.

A vertical shaft from the top of the dam into the tunnel provides for the gate. A cutoff trench was excavated 18 inches int osolid rock.

The dam, costing \$82,731, was built as an auxiliary to the \$450,000 Cooney dam, which is located on Red Lodge creek.

A four-mile approach road was bulldozed, linking a CCC trail lead-ing to the outside world with a point on the rim of Rock creek gorge 4,000 feet from the dam site and about

1,700 feet lower in elevation.
From the end of the haul road to the dam site the world literally stands on end. A cableway about 3,500 feet long was constructed. The shovel used for excavation of the dam was dismantled, transported to and from the site by cable as were the 3½-ton trucks which were used.

Student Invents Machine

to Speed Mathematics Sydney, N. S. W .- A machine that

promises to be of great value to the world's scientists and engineers has been invented by a young re-search physicist at Sydney univer-

Simply by tracing curves on a sheet of paper, it reduces to a matter of hours complicated mathematical solutions that by ordinary methods would take perhaps as many weeks.

The machine can be adapted to solve rapidly problems of railway engineering and bridge construc-tion, range tables for heavy artil-lery, statistical and economic investigations, physics, bacteriology, or electrical research.

It can add up the total of three quantities (numbers) which are continuously varying, so that the total itself keeps changing. By ordinary mathematical methods this might require weeks of tedious labor

By CHARLES SUGHROE



STANDARDS OF LIVING

LEONARD A. BARRETT

tial section; the dismissal of ser-

vants gave rise to a less orderly

house and, in some cases, to a very irritating environment. Less expen-

sive raiment meant cheaper mate-rial with a depreciated value. In almost every condition of luxury

HE KNOWS CALORIES

Harold Hawes, shown here meas

uring the ingredients for mashed po-

which street I shall live or to what

social group I shall belong? True,

the dictates of society may be re-sponsible for acknowledged stand-ards, but are not the standards

which elevate personality the prod-

uct of a silent monitor residing with-

in that personality? Has not the

time arrived when, in order to have a more equitable standard, we may

have to shuffle off the superficial

have a correct appreciation of true aristocracy. We should no longer think of aristocracy as an exclusive

"privileged class superior to all other classes," simply because of wealth. Wealth does not necessarily mean culture. "Those may hold

can" has proved itself a vicious philosophy, as the revolutions of his-

Real culture is always of the spirit, and may be found wherever the individual is larger in human aspect

than he is in accumulation, whether that accumulation be manners or

money. Standards of living should

express more high thinking and less

How shall we evaluate the present

standards and preserve the best?

Democracy points to the individual. The question is, what standards

make me sensitive to aspirations, sound in thinking, honest and sin-cere in achieving? Larger econom-

ic privileges with increased finan-

wasteful living.

from our patterns of living? will have the courage to do this? The answer is not difficult if we

ssion was the main-

tenance of our

were not affect-

little during the

come forced a re-

nual budget. A

cheaper rent

meant a less desirable residen-

Household Hints

"MY DINING room has me down," writes Mrs. T. H. B. "Because it looks empty, yet I don't know what to buy for it. I enclose One of the problems involved in a rough sketch of the floor plan and would certainly appreciate any suggestions you might make. I have table and chairs in early American maple and a plain blue rug. I want to buy some the plan blue rug. American stand-ard of living. Those whose living standards to buy some more furniture but can't see where it could be put and I'd like to have the walls papered and will make new curtains, but ed, suffered very trying years. He I'm at a loss as to what would be suffered most

> The trouble, of course, is that her wall spaces are so broken up by windows and doors—there are two sets of double windows on two walls sets of double windows on two walls of the room, and the other two walls are broken by the arch into the living room and the door into the kitchen. Our suggestion would be to use a pair of corner cupboards in maple which would give a feeling of being furnished to the room and yet make use of otherwise dif-ficult spaces. Then she could use one small chest or buffet with a pic-ture above it which would make an odd wall seem of more importance than it really is.

> As for the walls, we'd like a toile de Jouy type of wall paper with the design in blue on ivory ground . . . if she could find a chintz of similar pattern and coloring, that would be lovely for the curtains. (Or do as some of the decorators do now—use the toile de Jouy chintz for walls and windows both!) Or just use glass curtains of plain ivory marquisette with the toile patterned wall paper. Add contrast by the use of brilliant pottery on the shelves of the corner cupboards and in the picture over the chest or

No Whimsy, Please.

She had a lovely new home and a grand young son, aged nine. She said, "Oh, I know I should 'do' his room up brown I really want to, but as yet he's not particularly interested in boats, or circuses or any of those usual motifs that are used for boys' rooms. He's quite serious about most things and I just can't picture him in one of those oh-so-gay boy's rooms you see in pictures. I'm sure he's much more interested in his geography than he would be in the picture of the picture of the picture. tatoes, is the only man ever to enroll as a regular student in the school of economics at Purdue university. He is planning to become a dietitian. a tricky wall paper and whimsical

Of course, the geography was her clue. And she did a splendid job curtailment was necessary. Many persons felt that the standard of of her young son's room and he loves it. Yet she didn't spend so much that his changing tastes, as he reaches adolescence, won't alliving was greatly lowered, com-pared with former times when "our iving standards were incomparably low for more extensive alterations later. First she was wise and left the walls in their clean gleaming white plaster state. The woodwork was painted an off-white so that later decorative schemes won't retire expensive screening jobs to relate of better than those of other times and places because we had learned how to build immense factories and transportation systems and to undertake efficient mass production." What are these so-called stand-rds? Who creates them and by whose authority are they mainexpensive scraping jobs nor lots of paint to cover. The floor was cov-ered, sensibly, with a gun metal linoleum. An inlay of the four tained? Do they express luxury or necessity, satisfied needs or ap-peased desires? Are they original expressions of culture or standard points of the compass was placed in a prominent spot in the floor cover-

> beneficent conduct: for these are the outward expressions of the inner heart life.
>
> • Western Newspaper Union.

She chose Jacobean oak for a single bed, chest and desk for her son, gle bed, chest and desk for her son, claiming that it just seems to suit his personality; strong, quiet and sturdy. For curtains, however, she selected a brightly striped crash material, bright blue, red and orange, with white stripes between and made them up in simple draw style. A blackboard monopolized one wall and large brightly colored mane. and large brightly colored maps were placed on other walls—the maps pasted to composition board, shellacked and surrounded with oak-

objects a small boy collects.

The whole point of the room is The whole point of the room is that, right now, it's a perfect setting for this travel-minded young man. But none of its travel features are expensive or permanent, so that later when the nine-year-old's tastes and hobbies change, as inevitably they will, changes can be made easily and without too much strain on the purse. The sturdy furniture will always be a good "mixer" no matter where those future interests fall.

interests fall.

© By Betty Wells.—WNU Service

"THEME SONG" DRESS



tle "theme song" dress, extending all the way to the waist, is decidedly "tops" in style for the very young miss, this season. Small puffed itself, designed to interpret a fa-miliar song, to the delight of young wearers. "Daisy, Daisy, tell me your answer true" is the song from

The first Ladies' Aid Society in the country was organized in Cleve-land during the early days of the

framing. A world globe was an important part of the decorations. A series of book shelves, stained oak, contain toys and books and other

sleeves complete the quaint picture.

And newer than new is the fabric which this particular design drew

President Gets Red Cross Button



cial income will not in themselves President Roosevelt receiving a Red Cross button and membership secure inner culture. That must come from the quality of the spirit enrollment card from Faith Young, four-year-old granddaughter of Owen D. Young. The Chief Executive, who is president of the American Red of the individual. External stimuli cannot be substituted for human Cross, was the first to join the annual nationwide American Red Cross roll call. In the center is Admiral Cary T. Crayson, chairman of the sympathy, simple justice, and Red Cross.

Catch Up on Chic



F YOU'RE a bit behind in the | fact that you may choose the ma thrilling game of Sew-Your-Own, Milady, why not take ad-vantage of the holiday season and catch up? Today's trio is especially right for "vacation sewing" because it consists of simple practical pieces that require little time and trouble. Make all three and you'll have gone a long way toward putting the old punch back in the game.

Streamlined Styling.

The slip at the left is all you could wish for from the standpoint of styling. It offers superb lines from the moderately low cut V neck, through the dart-fitted waist right down to the very hem. The clever overlapping back is light proof and provides an action pleat so necessary for complete satisfaction. Important, too, is the



Poking Fire Bed From Above Forms Clinkers, Smothers Fire, Wastes Fuel

WHILE a poker frequently is a handy implement to use on a furnace, let me caution you against using it for the purpose of agitating the fire-bed from above! That results in a lot of trouble for you and for your furnace.

Stirring the fire through the furnace door opening only mixes ashes with the live coals, creat-



ing clinkers. As you know, clinkpletely. Also, they clog the grates, making it difficult to shake the

fire properly.

Owing to the odd size and shape of lumps of coal at the point that is poked from above, the fuel-bed becomes packed, and this packing prevents the free passage of air, thus forming clinkers. Clinkers formed this way, however, cause less trouble, for ordinarily they can be broken up and dropped into the ashpit by gently shaking the grates.

terial you wish in your own co Better make it in duplicate to many meticulous months ahead Pretty in Sheer Wool.

The two-piece in the center is, like the slip, heavy on style. The defined waist is effectively young as is the flowing skirt and little round collar. It is just the frock to give one lots of git-up-and-git for the second semester, or "to break the ice" whenever one is anxious about one's appearance. It can be the height of chic in sheer -very pretty in flat crepe.

Modern Home Dress.

When it's home you're thinking of you naturally turn to a frock like the third member of the trie at the right. This button-all-the-way model is different enough to delight you and simple enough to set you sewing at sight. It is cut for comfort but with an ever watchful eye on that elusive little thing called chic. Crisp contrast may be had in the collar and cuffs and in that trim row of buttons and in that trim row of buttons that march down the line—and then back again. Look fresh in your version in pretty percale.

The Patterns.

Pattern 1946 is designed for sizes 14 to 20 (32 to 44 bust). Size 16 requires 3¼ yards of 39 inch fabric. One yard of ribbon is required for shoulder straps.

Pattern 1404 is designed for sizes 12 to 20 (30 to 38 bust). Sizes

14 requires 4% yards of 39 material. Pattern 1390 is designed for sizes 34 to 48. Size 36 requires 4% yards of 35 inch material. The

collar and cuffs in contrast require 11/4 yards material.

Send your order to The Sewing Circle Pattern Dept., 247 W. Forty-third street, New York, N. Y. Price of patterns, 15 cents (in coins) each.

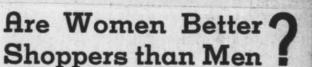
⊕ Bell Syndicate.—WNU Service



What a difference good bowel habits can make! To keep food wastes soft and moving, many doctors recommend Nujel.

INSIST ON GENUINE NUJO

CHEW LONG BILL NAVY TOBACCO



GRANTING a woman's reputation for wise buying, let's trace the methods by which she has earned it. Where does she find out about the advantages and details of electrical refrigeration? What tells her how to keep the whole household clean - rugs, floors, bathroom tiling - and have energy left over for golf and parties? How does she learn about new and delicious entrees and desserts that surprise and delight her family? Where does she discover those subth of dress and make-up that a man appreciates but never understands?

Why, she reads the advertisements. She is a consistent, thoughtful reader of advertisements, because she has found that she can believe them-and profit thereby. Overlooking the advertisen would be depriving herself of data continuously useful in her job of Purchasing Agent to the Family.

For that matter, watch a wise man buy a car or a suit or an insur-ance policy. Not a bad shopper himself! He reads advertisements, tool

AMAZE A MINUTE SCIENTIFACTS - BY ARNOLD

