

Consumers Power Company's new Bryce E. Morrow Station will add 70,000 kilowatts to the company's electric generating capacity—an increase of approximately one-sixth. Generated at 14,400

volts, the power will be transformed to 44,000 and 140,000 volts in the outdoor substation shown at the left of the picture. Four 140,000 volt transmission lines, carried on steel towers, lead two 44,000

volt lines then will take the power into Consumers statewide interconnected transmission system, to be pooled with the electricity of the other plants.

## Balloons Aid in Checking On Center of Hurricane

A tiny instrument, weighing about one and one-quarter ounces and suspended beneath a small balloon, is science's latest device for finding the ways and wherefores of South Atlantic and Gulf coast hurricanes. According to W. R. Gaddy, chief of the United States weather bureau conducting tests of the equipment, the data obtained will add immeasurably to what is already known about hurricanes. The instruments are sent out from three stations—located near Montgomery, Ala.; Jackson, Miss.; and Augusta, Ga.—operated by the Massachusetts institute of technology, co-operating with the government in this study.

Signals for release of the instrument-carrying balloons are given by the weather bureau's eastern district forecaster at Washington, D. C., who also sets their schedules, says Scientific American. From his daily charts of weather conditions all over the world, the forecaster follows every tropical disturbance from the time it appears far out on southern seas, until it has blown a path across the land or has veered to spend its fury over the water.

The instrument consists essentially of three recording elements, three small penpoints, and a piece of smoked glass about the size of a postage stamp. Fitted into a small aluminum or doped fabric gondola, it is carried on a hydrogen-inflated balloon to a height 10 to 20 miles above the earth at a rate of climb of 650 to 800 feet per minute.

Five pieces of red cloth are attached to the bamboo framework to attract attention of passersby to the fallen instrument. A lag offering a reward for return of the device to the United States weather bureau station at Boston is also attached. There the glass plate will be examined and read under a microscope and tabulations from the recordings will result in an interesting story of what goes on in the heart of a hurricane.

## Old Steamship Ticket Tells of Life at Sea

Among the most interesting objects to be seen at the Maritime museum of Gothenburg, Sweden, is a steamship ticket issued in 1858, giving a menu which is quite startling when contrasted with meals on luxury liners today. The regulations printed on it are:

"Each passenger will be furnished the following rations weekly: Seven pounds of ship's bread, two pounds of salt pork, two and one-fourth pounds of flour, one pound of salt herring and a daily ration of one can of water for drinking and washing purposes. These rations are furnished from the ship's stores, but each passenger must furnish his own butter, sugar, mustard, strychnine and vinegar. Each passenger is responsible for bringing his own bed clothing and tin dishes for eating, drinking and washing purposes. The ship's master has the right to withhold water rations until the promenade deck has been swept and cleaned each day by the passengers."

Many other items of interest to ocean-going travelers are exhibited at the Gothenburg museum.

## London Holds Fish Fights

Battles to the death between Siamese fighting fish offer a new craze in London society. The gaudy throng of tropical enthusiasts meet in a tank and bets are decided on points or a "knockout." At one party attended by 30 persons \$2,500 was at stake on one contest. The fish are being imported in hundreds by tropical fish dealers. The fighters are kept in tanks separated by glass partitions and betters study form as in horse races. The partition is removed and a powerful light thrown on them to increase their vitality. The combatants dart to deliver vicious bites, the fins and gorgeous tails soon become bedraggled by repeated assaults. Fights sometimes last two hours.

## Holland Well-Housed

Francis O. Wilcox, in Current History, says: "One of the brightest features in the Dutch cap is the fact that perhaps no other people in the world are housed quite so well as the people of Holland." From the humblest farmhouse to the apartment houses of the larger municipalities there is an air of neatness and permanence about Dutch homes that is refreshing. One can search in vain for slums comparable to those found in the United States. Furthermore, there are plenty of homes to go around, for, as the chief inspector of state housing assured on a "Practicality" survey, "every working class family can have, as a rule, four rooms and a kitchen in which to live."

## India Motor Militia

In India private passenger cars may be converted into fighting units on almost a moment's notice, according to information received from that country. Members of the Auxiliary force of India, an organization similar to the national guard in America, are called upon for service in times of riot or serious civil commotion. Upon such occasions members put their private cars at the disposal of the organization. Each car carries four men, two armed with rifles. The driver has a service revolver, and the fourth occupant mans a machine gun.

## CHINA OR NOT, DISHES BREAK SAYS EXPERT

Whether they are porcelain or china, dishes are not immune to breakage despite claims of foreign manufacturers that "bone" china gives added strength.

Winifred S. Gettemy of the home economics staff of Michigan State College reports that comparative tests reveal that bone ash added to the body of china does not give, as quoted, "invariable superiority over other chinas against chipping and breaking."

Miss Gettemy does give credit to quality for appearance sake. Fine china has qualities of hardness, clear lustrous glaze and transparency. For centuries the potteries of Europe and England and in recent decades those in the United States have been trying to produce the fine china that comes from the Orient.

As a result, it is pointed out, the English bone china has gained an international reputation for beauty and fineness of texture. The use of bone ash, which literally is the ashes of burned animal bones, gives to this china a "hardness" which apparently makes it less apt to chip or break. The ash serves as a flux which transfigures the ingredients into a solid mass which does not have to be glazed after firing.

## CONSUMERS POWER TO OPEN PLANT NEAR KALAMAZOO

Open house is being held during the remainder of this week and until Sunday evening at Consumers Power Company's new Bryce E. Morrow Station on the Kalamazoo River at Comstock, four miles east of Kalamazoo, to permit public inspection of a plant which embodies the most advanced developments in the generation of electricity by the steam process.

Plans have been made for the visitors. Charts and explanatory legends will make it easy for the layman to understand how the energy of coal is translated into steam, and the energy of the steam into electricity to serve the huge Michigan area in which Consumers operates. Exhibits demonstrating spectacular applications of electricity will line the walls of the turbine room.

The plant went officially into service Wednesday afternoon following ceremonies in which Wendell L. Wilkie, chairman of the board of Consumers and president of the Commonwealth & Southern Corporation, and Dan E. Karn, vice president and general manager of Consumers, were the principal participants.

## Another Plant

Another plant of similar design is under construction on Saginaw Bay north of Bay City. General Manager Karn says the Company foresees a continued increase in the demand for electric power in Michigan and has geared its construction program to keep pace with the anticipated demand.

The Bryce E. Morrow Station is named in memory of a well-known electrical engineer who for many years headed Consumers' Electric Production and Transmission Department. It adds 70,000 kilowatts, or almost 100,000 horsepower, to the company's generating capacity—an increase of about one-sixth through as latewide interconnected

network of transmission lines, the power will be at the service of the entire Consumers territory, embracing most of the Lower Peninsula outside of the Detroit and Thumb areas.

The Morrow Station will consume approximately 200,000 tons of coal per year, and storage capacity for 150,000 tons has been provided.

Ground talcum-fine, the coal is blown into the boiler furnaces through burner jets, where it burns like gas. Boilers operate at a pressure of 900 pounds per square inch, producing steam superheated to 375 degrees Fahrenheit. This steam goes to the two turbines, entering at a pressure of 300 pounds. Within each turbine the steam operates against thousands of blades on a shaft. The shaft revolves, turning the electric generator which is on the same shaft. Each of the two generators revolves 3600 times a minute or 60 times a second.

22 Miles of Tubes From the turbines the steam passes down into two condensers

directly below. Each condenser is honeycombed with 22 miles of copper tubes an inch in diameter. Water is pumped from the river, through the tubes and back to the river. As the hot steam passes around the colder tubes, the steam is condensed to hot water, which is then pumped back into the boiler at a pressure of 1200 pounds per square inch.

During an average day the condensing water pumps will pump through the condenser tubes and back into the river. This is about twelve times as much water as would be pumped by the city waterworks in a city of 50,000 persons.

The generators produce electricity at 14,400 volts, which goes through underground cables to the transformer substation outside the plant. There some of it is stepped up to 44,000 volts and the remainder to 140,000 volts. Then it goes into the transmission lines, where its energy is pooled with that of the other power plants.

## SPECIAL!

RUGS CLEANED  
(9x12) .....

\$2.75

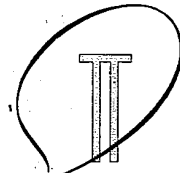
HATS, Cleaned and Blocked  
**60c**

Same method us used by  
Malory, Stetson, Adams, Etc.

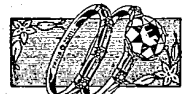
**Greene's Cleaners and Dyers**

FARMINGTON AGENCY

Comstock's Barber Shop, 33340 Grand River Ave.



Quality beyond question \*  
Distinguished in beauty \* Priced  
for your pocketbook \* Genuine  
"Orange Blossom" are the  
standard of ring quality the country  
over.



WATCHES REPAIRED BY SWISS EXPERTS

**Hugo VonBurg**

22009 Grand River

Phone Redford 1855

REDFORD

For the  
**PRICE**  
of a good  
cigar



It was Kipling who quipped, "A woman is only a woman; but a good cigar is a smoke." With none of the fear and trembling that should attend an extension of that master's words, we would like to say that for the same price as a good smoke you can purchase a panoramic view of the life in this community.

How else but through the columns of The Enterprise will you obtain accurate information on such subjects as the City and Township government; the State and national government as they affect the local scene through the WPA, PWA and such agencies; the school system; social and fraternal affairs here, and last, but not of least importance, the values being offered by your local merchants? A cigar is only a good smoke, but The Enterprise is a carefully conducted trip behind scenes at Farmington.

**The Farmington Enterprise**

## LONG DISTANCE RATES ARE SURPRISINGLY LOW

Typical Long Distance Telephone Rates for 2-minute station-to-station calls, nights after 7 and any time Sundays

BETWEEN

Port Huron-Adrian .....	40c	Lansing-Traverse City .....	50c
Flint-Kalamazoo .....	40c	Jackson-Cadillac .....	50c
Monroe-Battle Creek .....	40c	Pontiac-Sault Ste. Marie .....	75c
Dearborn-Grand Rapids .....	50c	Ann Arbor-Monroe .....	75c

Long Distance telephone calls cost little during the day, and even less after 7 o'clock each night and any time on Sunday. Then, you can telephone 120 miles for only 40 cents . . . 160 miles for 50 cents . . . 280 miles for 75 cents. (These figures are for 3-minute Night and Sunday station-to-station calls.) See your telephone directory for rates or ask the operator.

On a call for which the charge is 50 cents or more, a federal tax applies

**MICHIGAN BELL TELEPHONE COMPANY**

Bringing to the People of Michigan the Advantages of the Nation-wide Bell Telephone System

