THE TO



BY - - THE WAR SAVINGS STAFF OF THE U. S. TREASURY DEPARTMENT, THE U.S. OFFICE OF EDUCATION AND ITS WARTIME COMMISSION

公 SCHOOL STATE STREET TOWN

> Holdenville

WE REPORT TO THE NATION

We herewith submit a bird's-eye view report of our SCHOOLS AT WAR Program. It includes factual and pictorial accounts of our War Savings Program and other outstanding war activities. It is tangible proof of the resourcefulness, skills, activities and the will to win of every student, teacher and parent enlisted in our SCHOOLS AT WAR Program.

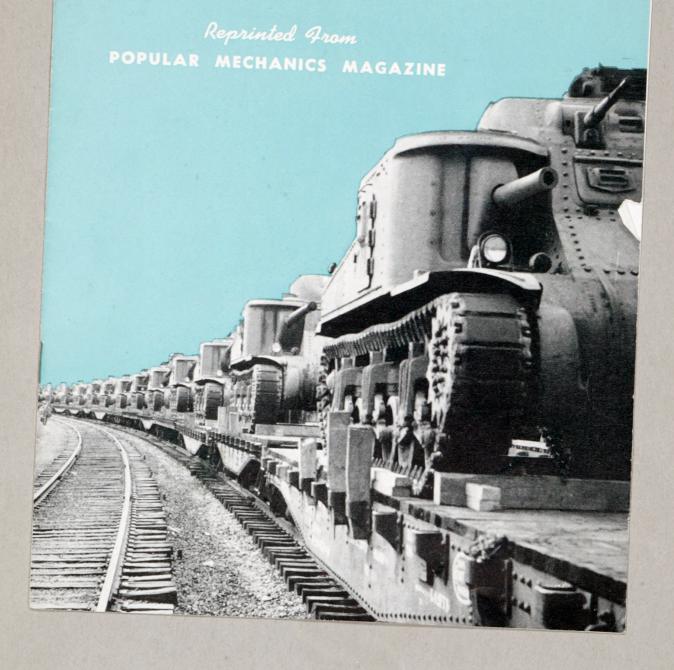
Name of School Hulsuy Address Holdenvillo Okla	
Enrollment	Grades / - 8
No. of Teachers 2	No. of Classrooms
Cash Value of War Stamps and Bo WAR Program 2.50 Per	onds sold during SCHOOLS AT

Hu Losey 25ch 001 MGS ARS

* * *

avt ~ att

The IRON HORSE Delivers the TOOLS of WAR



Hulsey 2435 Lb.

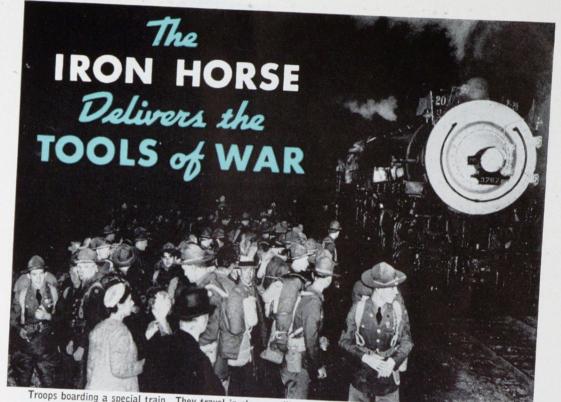
Acknowledgment

We wish to express our appreciation for permission to reproduce this story, which was originally published in the July and August, 1942, issues of

MAGAZINE

Printed and Distributed by the ASSOCIATION OF AMERICAN RAILROADS 924 Transportation Building Washington, D. C.

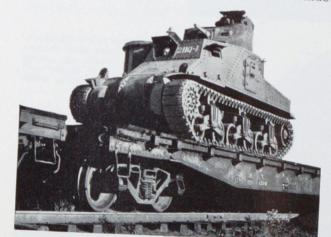
(ADDITIONAL COPIES AVAILABLE ON REQUEST)



Troops boarding a special train. They travel in sleepers; "impedimenta" and field kitchens in baggage cars

PART I

SUREST sign of an impending blitz in Europe is the public notice that passenger traffic on German or Italian railways is suspended or curtailed for the next few days. You can read between the big guns pass by, or unless you caught a

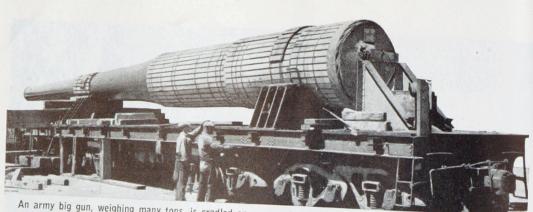


Its crew peering from portholes, a tank crawls from car to car

There's no such barometer to read in the United States. Unless you were halted at a grade crossing and saw the long strings of flatcars laden with tanks and lines—troops and supplies are on the glimpse of the khaki uniforms at every window of the special train flashing west-

ward, you could only guess that America was starting its own big blitz in the days after December 7.

But it is no longer a secret that the greatest mass movement of troops and impedimenta and machines of war began within hours after the bombing of Pearl Harbor; that 600,000 soldiers and sailors and marines and airmen traveled across the states by railway in the first seven weeks of war with no more interference with regularly scheduled trains than an occasional sidetracking of your Midnight Express to let an army special race through. In round numbers that means that

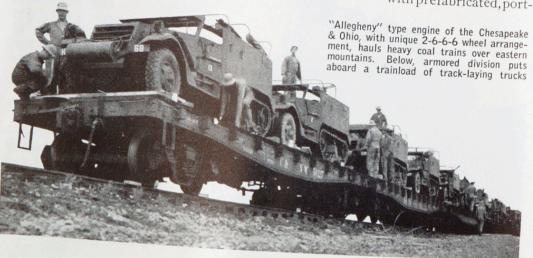


An army big gun, weighing many tons, is cradled on an oversized flatcar

U. S. ARMY SIGNAL CORPS PHOTO



for 49 days, 30 trainloads a day of fighting Yanks moved from camps to bases; and the massing of forces still goes on. Nor does this include the vast number of military freight trains rolling across the land. Full trainloads of bomber and fighter planes, knocked down for shipment but ready for quick assembly, steamed westward from aircraft plants and warehouses of the middle west a day after war broke. As one example of the swiftness of mobilization, within 24 hours of Pearl Harbor a 38-car train laden with prefabricated, port-



able airport runways passed through Chicago on its way to an untold front.

Some of these war freights string out more than a mile from cowcatcher to caboose. When they start rolling, everything else steps out of the way. A regular train arriving in a big classification yard at such a shipping center as Chicago or St. Louis may spend two to eight hours being broken up and remade into new

trains; the military freight will skirt the city, pause only long enough to pick up a fresh engine and crew, and be on its way. At the end of its journey the cars are unloaded as rapidly as men and machines and warehouse space permit and put to work again. Idle cars are a luxury neither railroads nor the nation can afford these days.

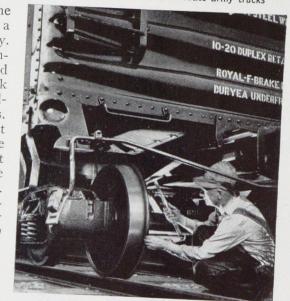
Are the railroads moving the load? At a time when civilians were taking the train to save their own tires, the biggest troop movement in history took place without serious inconvenience to anyone. Of the entire Pullman fleet of 7,000 sleeping cars, 1,500 have been set aside for troop transport and as many as 2,900 have been assigned to the army on peak days of military travel. As for freight, the railroads last year handled the greatest volume in their history, including virtually a two-year grain crop, without a car shortage. The situation looked rather

critical last summer, for the grain elevators were still bulging with a record carry-over of 400,000,000 bushels of 1940 wheat when the 1941 harvest came along. Old grain had to be moved out to distant

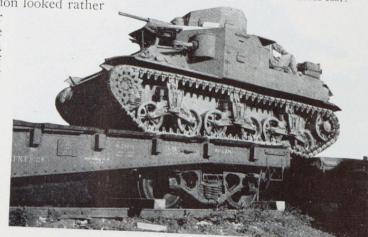
Center: Inspecting a wrought steel wheel. Some of these car wheels have averaged 300,000 miles of road service. Bottom: Trainloads of tanks are loaded from one end, the heavy "forts" crawling from flatcar to flatcar

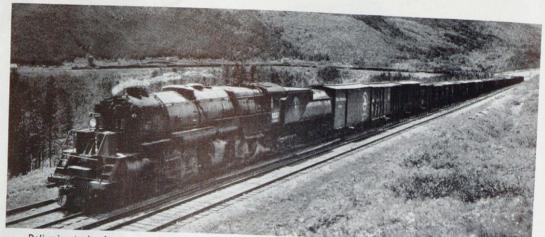


The railroads supply end-loading box cars to accommodate army trucks



U. S. STEEL CORP.





Delivering tools of war a mighty locomotive on the Great Northern pulls a long freight in the mountains

storage points and the new grain moved in. But the railroads assembled a vast fleet of cars and moved the crop in orderly fashion. In one outstanding instance, 500 cars of wheat were hauled from Chicago to elevators in Philadelphia, unloaded and the empties were back in Chicago in less than six days.

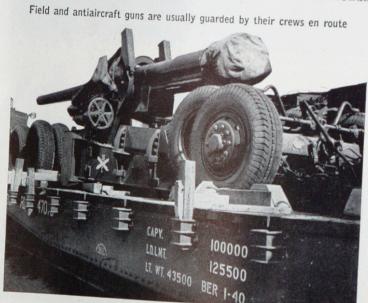
It isn't like the days of '17 and '18, when rail transportation bogged down on the eastern seaboard for want of some place to unload the cars and thousands of loaded freight cars lay idle for weeks and months. Actually, at one time 200,000 loaded cars stood on tracks in the northeastern states, not turning a wheel. With-

take over the cargo, without an efficient system of controlling the government's "priority" freight, cars that should have been hauling goods became warehouses on wheels. One example was the rush order for piling needed at the Hog Island shipyard. Priority tags got the piling there in a hurry, and before anyone was ready to unload them there were 5,000 flatcars loaded with piling sitting in the nearby railroad yards. They sat there, some of them for months, clogging the terminal tracks and unable to get back into useful service.

That's all changed now. Two important agencies born since the first world warout sufficient ships or warehouse space to the railroads' Interterritorial Military

Committee and their Car Service Division — are seeing to it that no traffic paralysis can occur again. In general, the former cooperates with the Army Quartermaster General in handling troop movements; the Car Service Division is responsible for efficient management of the nation's supply of freight cars.

From Pearl Harbor forward these railway organizations have been on duty 24 hours a day. The Quartermaster General notifies the Com-



mittee's Washington office that a division is to start moving in 48 hours, say from a midwestern camp to Seattle. Immediately wires go out to the Regional Committee offices over their interconnecting teletype directing the assembling of 750 to 1,000 cars from the nearest railway centers-in this case perhaps from Nashville, Chattanooga, Memphis, even as far as Chicago, Atlanta and St. Louis. A pool of 50 to 60 locomotives is concentrated at the camp and as many more must be ready to relieve them at a half dozen points on the chosen route to the coast. The mammoth task of diverting all this equipment, manning it, routing it over 2,000 miles of busy rails with scarcely perceptible effect on normal schedules, moving 20,000 men and their personal impedimenta and divisional equipment is an achievement the rails can be proud of.

The average troop train consists of 14 to 20 cars; 10 sleepers carrying 39 men each, another for officers, two baggage cars, one for the army kitchen equipment -all military units serve their own meals except the Air Force, which enjoys dining-car luxury-and additional cars for heavy equipment. Artillery units move on freight trains of 10 to 25 cars, with their men constantly guarding their guns and trucks. Smaller groups of men, of course, travel on regularly scheduled trains.

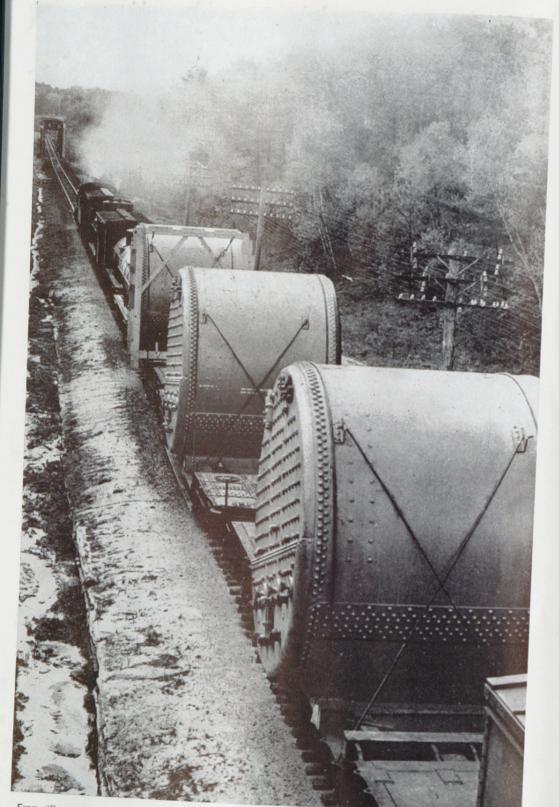
One railroad alone moved 200,000 soldiers and equipment. Another was called on to furnish 1,500 flatcars, 286 automobile cars, 200 tourist sleepers and 89 baggage cars to transport one unit. A motorized unit traveled 3,000 miles in four trains assembled on short notice. One division required 64 trains.

Early this year the government issued an order which meant that 28,000,000 bushels of corn must be moved by rail. That called for more than 15,500 freight cars. The cars were there at the proper time and place. This was no military movement, but it's one example of the gigantic tasks the railroads can take in their stride through the "pooled management" of the Car Service Division of the Asso- as the freight of war increases. ciation of American Railroads.

From its 22 offices this Division supervises the movement of loaded and empty freight ears between railroads, anticipates the needs, prevents congestion of loaded cars at the ports or shortages of empties where there's a load to carry. Before the tremendous grain crop of 1941 matured the Car Service Division ordered eastern and southern railroads to send a huge fleet of empty box cars to the wheat belt, and there was no shortage. In October alone 175,000 cars of grain moved. If unloading facilities at a seaboard terminal are overtaxed—the bogey in World War I-Car Service issues an embargo halting further shipments to that port until congestion is relieved. If a big manufacturer "hogs" idle freight cars on his siding, Car Service embargoes the plant and it will get no more supplies hauled in or products hauled out until it cooperates in keeping the cars moving.

Shippers, however, are now cooperating to eliminate the waste of idle cars by rapid loading and unloading. And they have cooperated for nearly 20 years in regional Shippers Advisory Boards which are the "crutch" on which the Car Service Division leans in anticipating freight volume. Every three months these boards gather from their 20,000 member shippers, who load or receive four-fifths of the nation's freight, information on their expected freight volume in the ensuing quarter. From these reports the Shippers Advisory Boards issue their forecasts of freight movement. Their judgment guides the Car Service Division in providing cars when and where they're needed; and in the last six years they have been right, on the average, within 3½ per cent. The biggest error in estimate was 6 per cent, in one period when an expected strike did not materialize.

Even the war, which has given the Car Service Division a 24-hour problem assembling the rolling stock for trainloads of tanks and airplane parts and trucks and petroleum and munitions, did not upset the calculations greatly, for the volume of consumers' goods is shrinking



From rifle cartridges to big guns and huge ship boilers—the Iron Horse is ready, willing and able to take the



ACME STEEL CO. PHOTO

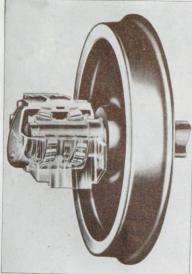
PART II

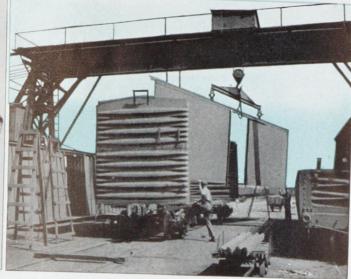
WAR began trying to break the back of the railroads three years ago, and it's still trying. The freight load on American rails rose 55 per cent from May to October, 1939. For many months they have delivered every day more than 5,000 carloads of war materials to government camps and construction projects. That's 50 miles of freight cars a day.

Now that we're in it, the burden grows enormously. Tankers go down in the Atlantic, the east cries for oil, and the railroads step up tank car deliveries tenfold, from 1,827 cars in one January week to 19,926 cars in an April week-an all-time record of 640,478 barrels per day. The Panama Canal is virtually closed to intercoastal ship-

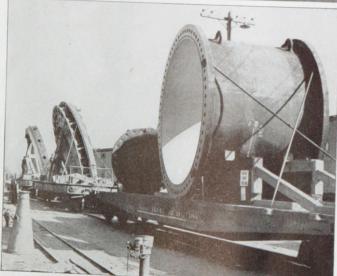
Steel strap for packaging is one of the methods making economical use of freight car space. Union Pacific's "Big Boy" shows its articulation in the odd view below











ping and the rails take over the job, which may give fulltime employment to as many as 35,000 freight cars. Tires are rationed and folks and goods that went by highway go by train.

The stuff they carry is as strange as it is stupendous. Special 24-wheel flatcars cradle a big coast-defense gun. Towering turbine parts ride from eastern factories to western dams. A Denver shipyard builds a vessel for the navy and sends it west by rail. Prefabricated sections of steamers' hulls are loaded at inland plants.

Last year the railroads did the biggest job in history. This year should be 10 per cent bigger. Carloadings are expected to hit a million a week. Last October's peak was 922,000 cars. And yet

Top, left: Roller bearings seen in this "X-ray" view of a Timken journal application smooth the ride of locomotive and cars. Top, right: Erecting side panel of a light steel boxcar at Union Pacific shops. Center: These little lift trucks speed up handling of freight tremendously. Bottom: These gigantic turbine parts for a western dam had to be shipped on specially built freight cars

the railroads are doing this—hauling nearly 25 per cent more tons of freight per mile than in 1918—with 625,000 fewer freight cars and 21,000 fewer locomotives than they owned in that other world war.

How do they do it? There are a number of answers. "Big Boy" is a typical one. "Big Boy"—there are 20 of him on the Union Pacific line —is a Hercules among locomotives, capable of hauling more than a mile-long freight train more than a mile a minute. Just under 133 feet long, it is the biggest steam freighter in the world, so long that it had to be hinged at the center to take the curves and grades over the Wasatch Mountains between Ogden, Utah, and Green River, Wyo., where it does the work of two ordinary engines. Of the 4-8-8-4 type, "Big Boy" has 16 drive wheels, weighs 1,197,800 pounds and pulls the biggest freight you ever saw at 80 miles an hour top speed, "cruising" at 70.

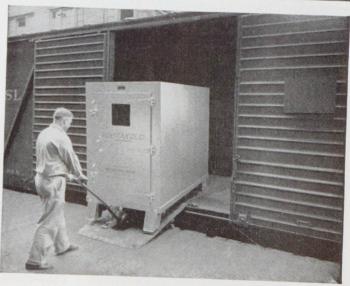
The railroads may have only two-thirds as many locomotives as they had in '18, but they do more work. The average steam engine of 1918 had a tractive effort of 34,995 pounds; today's average engine is rated at 51,915 pounds. "Big Boy's" rating is 135,375 pounds tractive effort, and it has an expected

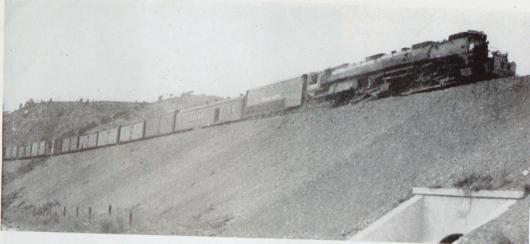
Top: Chain conveyor in specially fitted boxcar facilitates loading of engines with minimum packing. Center: This car can be dumped to either side by air valve, and an entire train can be dumped by operating valve from engine. Bottom: The "Portakold" refrigerator carries perishables in ordinary boxcar

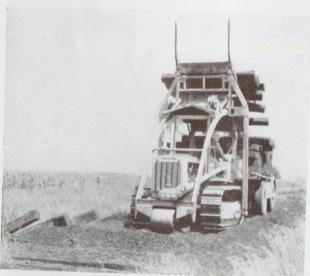
PHOTOS CHRYSLER CORPORATION AND DIFFERENTIAL STEEL CAR CO.











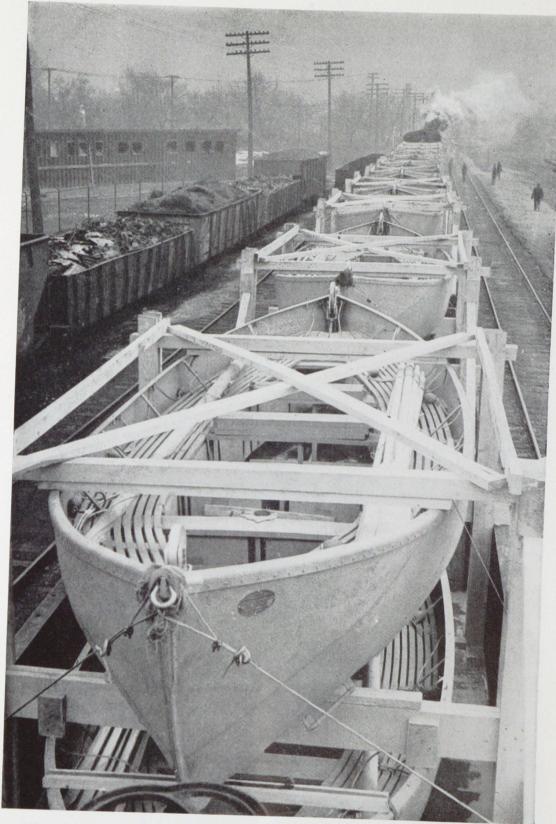
Top: "Big Boy" of the Union Pacific, with 16 drive wheels, pulls a mile of freight more than a mile a minute, "cruising" at 70. Center: Caterpillar Diesel uprooting and salvaging ties from a 60-mile abandoned railroad, loading ties into truck at rear. Below: An Elwell-Parker loading truck carries a pipe into a boxcar

working life of 3,000,000 miles. Another new powerhouse on wheels is the Chesapeake & Ohio Railway's "Allegheny" type, with a 2-6-6-6 wheel arrangement never before used. There are 10 of these \$250,000 locomotives, and more ordered, built to haul coal across the Allegheny Mountains. Another big lift for the general power average of 1942 locomotives is provided by the growing fleet of main-line Diesel-electric freighters with their tre-

mendous tractive effort of 220,000 pounds. All these modern giants are equipped with roller bearings that let them ride with the frictionless ease of a ship in water. A handful of men can push a million-pound locomotive with roller-bearings.

So—"more power to the railroads" is one answer to the question, "How do they do it?" Other answers are—better equipment, better track. Grades and curves





Lifeboats built in a converted stove factory for the U. S. Merchant Marine, en route by rail to the seacoast

have been ironed out, heavier rails installed so that streamliners and freights alike go faster. Twenty years ago less than 1.5 per cent of the steel rails weighed 110 pounds or more per yard; today 22 per cent. Freight car hot boxes then were five times as frequent as now, locomotives broke down seven times as often.

The creaking, groaning, swaying box-car has been to the rejuvenation clinic. It's built now of lightweight steel, some with wrought steel wheels good for as many as 300,000 miles; and the average freight car carries nearly nine tons more than in 1918. The roads will add about 115,000 new freight cars and 1,000 locomotives in the year ending October 1, if materials can be obtained. They're shooting at a fleet of 1,765,000 cars and over 42,000 engines on that date. Since 1923 they've junked 40,700 old locomotives as obsolete!

Fast? The average speed of all freights between terminals—including stops—in 1921 was 11.5 miles an hour; now it's 16.7 miles an hour, 45 per cent faster. Furthermore, they burn less fuel doing it. Twenty years back it took 162 pounds of coal to pull 1,000 tons of freight one mile; today it takes but 111 pounds of coal.

The railroads measure transportation in tons carried per mile. Here's where the contrast between 1918 and 1941 shows up in black and white. In the first half of '41 the ton-miles per freight car were 57 per cent greater than in '18. In other words, today's car is delivering three-fifths more transportation.

Diesel-electric switchers shunt carloads of TNT and high-explosive shells up and down 100 miles of track at one of the government's big new ordnance plants, and there isn't a semaphore in sight. Inside the cab of one of these locomotives the engineer is listening to his radio. "Pick up 5 carloads of TNT at track 7, deliver to magazine 47, track 4," comes an order; and a minute later, "Ten carloads of shells half a mile ahead. Proceed slowly."

A dispatcher controls all the deadly traffic in this vast yard by two-way FM radio. This is a private, "intramural" railway, of course, but it's typical of the

new techniques the roads are adopting. Short-wave radio signals, for example, direct traffic in one big freight classification "hump" yard.

Another system now in operation on many railroads, doubling the capacity of their tracks, is the two-way, reverse traffic signal. It enables the operation of trains in either direction on both tracks. To cite one example, one midwestern railroad is installing two-way signals on a section of its double-track main line, thus converting several miles into the equivalent of a four-track line. The westbound freight that used to pull over into a siding and wait while the streamliner streaked by westward can now roll right along while the fast passenger train highballs past on what normally would be the eastbound track. All the trains on the division will operate without written orders, governed by the wayside signals controlled by dispatchers watching their movements on illuminated "Centralized Traffic Control" boards. Signals on the section of twoway operation read in both directions.

Waybills sent by teletype, messages sent by facsimile and carrier currents step up the pace of both freight and communications. Electric "mules" snake around loading yards hurrying the freight aboard. Tough little electric high-lift trucks pick up huge loads and trundle them into boxcars. One of these baby giants can lift a 10,000-pound loaded steel container and set it in its proper place on a compartment freight car.

It takes all kinds of freight cars to move the load. There are more than 100 types of tank cars specially designed for milk or molasses, oil or acid, water, ice cream. Hopper cars with watertight hatches protect cement and similar perishables from rain. End-loading boxcars accommodate army tanks, trucks, bomber wings. Portable refrigerators on wheels, loaded into ordinary boxcars, obviate the use of a full-size refrigerator car for small lots of frozen foods and flowers and fish. Underslung flatcars take on halfmillion-pound ingots and ingot molds for armor plate. Pneumatic dump cars automatically tilt to either side to dump 50yard loads of earth.

In peace time the 235,000 miles of American railways carry about two-thirds of the nation's freight. In war the burden is heavier; more than any other war in history, this is a war of movement. The army has told the railroads they must be ready this year to assign 2,000 cars a day for ordnance shipments.

Every five seconds a freight train starts its run. Every five seconds a passenger train slides out of its terminal.

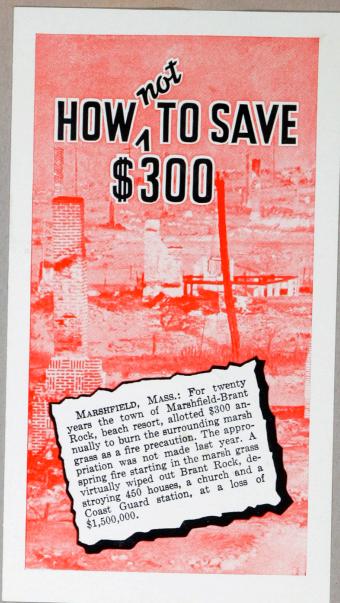
The railway system, says the War Department, is "the backbone" of national defense. The main line is the front line today.



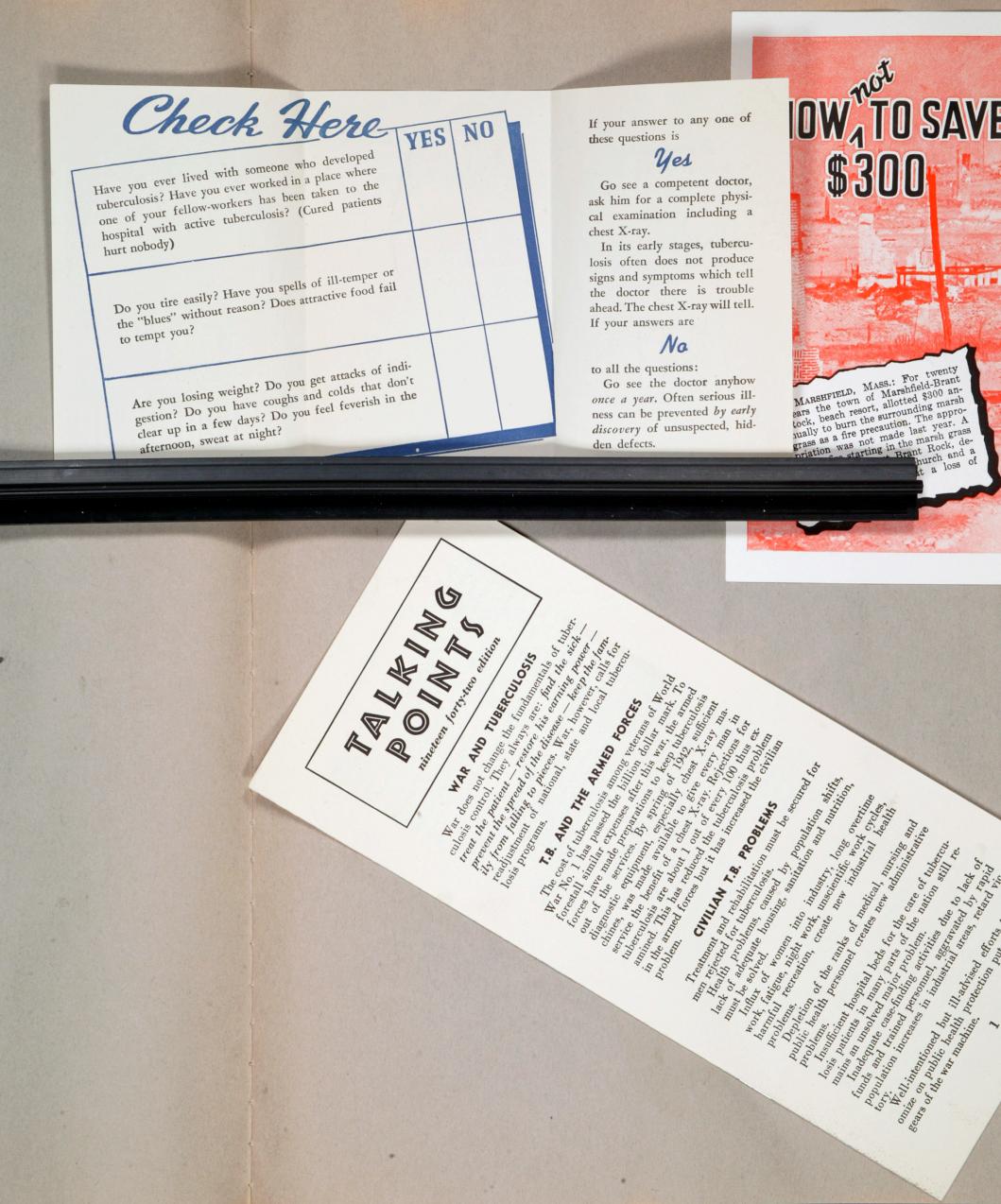
Heat and power for the homes and factories of the East

JAONA Moll or Mome y 1. Class-of fifteen minuite period once a week





War The Order of t



LOST MANHOURS The loss of manhours due to tuberculosis is gigantic. In 1940 sanatoria provided 22 to 23 million patient days of treatment; tuberculosis divisions of hospitals provided 6 to 7 million treatment days.

These figures added to the man days of hospitals provided 6 to 7 million treatment days. These figures, added to the man days of hospital nese ngures, added to the man days of nospital personnel, total more than 40 million man days per personner, total more than 40 million man days per year. To grasp the size of this figure, 40 million year. To grasp the size of this ngure, 40 million man days, if employed in war production, would be sufficient to build. 160 destroyers 040 flying for man days, it employed in war production, would be sufficient to build: 160 destroyers, 940 flying fortsufficient to build: 160 destroyers, 16,000 light tanks, resses, 8,000 combat planes, or 550,000 .30 marginal resses, 34,900 jeeps or 550,000 .3 chine guns.

TUBERCULOSIS IS PREVENTABLE

All wars in the past have brought an increase in tuberculosis. The disease is still the greatest killer undercutosis. The disease is still the greatest killer among the communicable diseases.

Tuberculosis can be prevented. How? By maintaining in wartime a well-balanced community program against tuberculosis

gram against tuberculosis.

THE CAUSE OF TUBERCULOSIS Tuberculosis is caused by germs. Without tuberculosis germs there can be no tuberculosis. It is not culosis germs there can be no tuperculosis. It is not colds nor flu nor being run down that cause the disease Only tuberculosis germs can cause tuberculosis disease. Only tuberculosis germs can cause tuberculosis. Tuberculosis is NOT inherited.

In 1882 Dr. Robert Koch discovered the germ and losis. Tuberculosis is NOT inherited. proved that when tuberculosis germs are planted in

proved that when tuberculosis germs are planted in a healthy body they will produce tuberculosis.

There used to be two major groups of There used to be two major groups of the produce tuberculosis. spreaders—sick dairy cattle and sick human beings.
In 1900, out of 2,836 counties in the United States none was safe from either cattle tuberculosis States, none was safe from either cattle tuberculosis

Now all counties are free from the danger of cattle tuberculosis, but none is free from human tuberculosis, but none is free from human tuberculosis. We have succeeded in cleaning up the cattle herds but not the human community. or human tuberculosis.

TUBERCULOSIS GERMS

Tuberculosis germs, called by scientists myco-bacteria tuberculosis hominis (when of human bacteria tuberculosis continuous) are mibacteria tuberculosis hominis (when of human origin), bovinis (when of cattle strain) are microbes. (Micro = small + Bios = life.) They are a well-defined bacteria. (Bacter = plant.) They are a well-defined species with many subdivisions. As they are rod species with many subdivisions. As they are members of the large family of yeasts, molds and mold-like plants. like plants.

Tuberculosis begins with the infection (in = in + facio = to make.) Infection means that germs have made a home in a living body. Infection with tuberculosis germs often produces tiny tubers in the body tissue thus giving the disease its name. Tuber body tissue, thus giving the disease its name.

- nodule + oul - small - osis - oordinate mody tissue, thus giving the disease its name. Tuner a nodule + cul = small + osis = a condition.

Thus, tuberculosis is the condition of having small tubers in the body caused by the growth of tuberculosis. tubers in the body caused by the growth of tuberculories forms losis germs.

After a body has become infected 1 of 4 things

1. The powers of body resistance kill the incan happen.

- vading germs. Then all is well. 2. The body and the germs manage to live together side by side, each unable to hurt
- the other. This happens to about one-half
- 3. Quite often however the balance of host and germs becomes disturbed in favor of and germs becomes disturbed in rayor of the germs, either by inside or outside forces. Then tuberculosis discose desired forces. Then, tuberculosis disease developments of the contraction of ops. Half a million people are sick with this disease and 60,000 died from it in
 - 4. When the body's defenses get the best of when the body's derenses get the pest of the germs and balance is established again, physicians speak of arrested disease. When the body kills the germs, tuberculosis has been arred correlately berculosis has been cured completely.

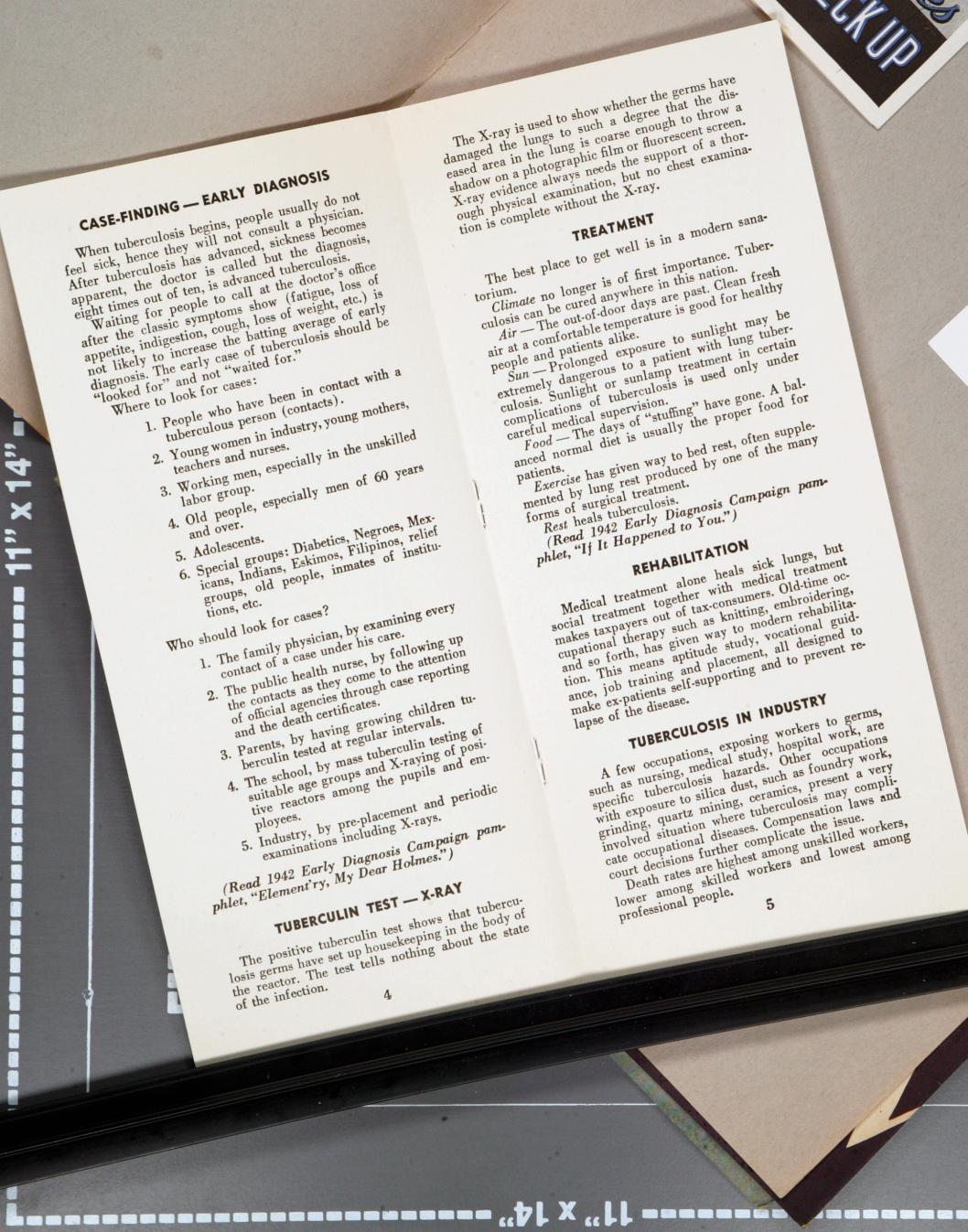
THE SPREAD OF TUBERCULOSIS

Tuberculosis germs, in order to survive as a species, must enter a host, multiply in number, find species, must enter a host, multiply in number, find a new away out again, and find transportation to a sick host. Tuberculosis germs are passed from the stop to the well. Thus, tuberculosis keeps going. To to the well. Thus, migration of germs must tuberculosis the migration of germs must tuberculosis the migration of germs. to the well. Inus, tuperculosis keeps going. 10 stop tuperculosis the migration of germs must cease.

This is done by finding corniers of the discontinuous design. This is done by finding carriers of the disease and isolating them and by cleaning all germsoiled inis is done by mading carriers of the disease and isolating them, and by cleansing all germ-soiled things.

NO HOME IS SAFE UNTIL ALL HOMES ARE SAFE

Because of lack of understanding thousands of carriers of tuberculosis germs are at large spreading they come disease and death to people with whom they come disease and death to people with whom they come in contact.



1. Popular adult health education. 3. Education of tuberculosis workers, lay 2. Child health education. 4. Case-finding among apparently healthy Tuberculosis among workers is part of the larger problem of industrial health. Tuberculosis will be population groups. problem of maustrial neatm. Tuperculosis will be found as a by-product in any well conceived industrial health program which includes chest whether the examinations are appropriately whether the examinations are appropriately appropriately. 5. Clinics for diagnosis. 6. Consultation services. whether the examinations are sponsored by labor 7. Hospital care for patients. 9. Vocational guidance and job training. 8. Public health nursing. By and large, tuberculosis is not an industrial hazard; rarely is it directly connected with occupaor management or both. tion. Yet, tuberculosis is a common disease among 10. Job placement. working people. The lower the economic level, the 12. Administration of public health. 11. Post-sanatorium care. The tuberculosis association is prepared to demonstrate the value of any section of this program with the expectation that the tax-supported has been will carry on after the value of the service has been more tuberculosis is present. will carry on after the value of the service has been The need: At least one hospital bed for every person requiring treatment or isolation. Bed require-(Read 1942 Early Diagnosis Campaign pamphlet, "Keep, Em Flying.") proved to the voter and taxpayer. son requiring treatment or isolation. Deu requirements are measured by beds per annual death. Two beds per annual death is the minimum standard acpeus per annual death is the minimum standard accepted by most authorities. One annual death means ADEQUATE PUBLIC ASSISTANCE Tuberculosis produces all sorts of financial comnine living people sick with tuberculosis. If there have been 10 deaths from tuberculosis Plications. Wage earners are taken from their jobs, within a year, in a community, a minimum of 20 hospital hade for tuberculosic nations. plications. Wage earners are taken from their Jobs, orphans families are thrown on public support, orphand families are thrown on public and private welfare and must be brought up. Public and private such situated agencies must face and handle such situated agencies must be brought agencies must be such situated agencies agencies must be such situated agencies agenci hospital beds for tuberculosis patients are needed. One-tenth of the population in the United States must be brought up. rublic and private welfare and relief agencies must face and handle such situations, adequate relief should be provided from the relief is Negro. One-quarter of all tuberculosis deaths are relief agencies must face and handle such situa-tions; adequate relief should be provided from pubamong Negroes. In some sections exists a dangerous Christmas Seal funds are like "seed corn"—not the christmas but sown where they have family Described. to be eaten, but sown where they bear fruit. Providing temporary relief does not get at the root of the relief problem. shortage of beds for Negroes. THE VOLUNTEER AGENCY Action in public affairs can be achieved by: lic funds. Coercion — the dictator's way "The first and greatest need is education; educa-Tradition - the "Old World" way relief problem. tion of the people and through them education first the state.

The first and greatest need is education; education of the people and through them education first the state.

Trustant of the National Tuberculosis Association of the National Tuberculosis. In a nation of free people it is up to the people to make things happen. The volunteer services usually demonstrates the need for public services. me state. Edward Livingston Trudeau, N.D., nrst president of the National Tuberculosis Association to make things happen. The volunteer agency usually demonstrates the need for public services. president of the National Tuperculosis Association and pioneer in the scientific treatment of tuberculosis and pioneer in the scientific treatment of tuberculosis. and proneer in the scientific treatment of tuberculosis in America, made this statement at the first annual meeting of the National Tuberculosis Association in 1905 Not before the people have understood a need are they willing to support public agencies they willing to support public agencies.

The volunteer agency usually pioneers agency usually pioneers.

The official agency is limited by law to conplores. The volunteer agency usually proneers and experiment with new procedures and experiment with new procedures and experiment with new procedures and "The discovery of popular education as an instrument of preventive medicine by the pioneers of the agency can experiment with new procedures and demonstrate their practicability. The official agency ment of preventive mentione by the pronects of the tuberculosis movement has proved as far-reaching in the results of the discourse of the general transfer. tuberculosis movement has proved as far-reaching tuberculosis movement has proved as far-reaching for the germ theory of the ge agency can experiment with new procedures and demonstrate their practicability. The official agency should take over tested procedures and corn them tion in 1905. demonstrate their practicability. The omciai agency should take over tested procedures and carry them on with the prestige of the law.

Official agencies often need a spokesman to interofficial agencies often need a Volunteer agencies
pret their work to the people.
can serve as interpreters. oressor or rrevenuve medicine, rate University.
"The battle against tuberculosis is not a doctor's affair; it belongs to the entire public."—Sir William Osler, M.D., one of the world's foremost teachers of modern medicine on with the prestige of the law. can serve as interpreters. THE TUBERCULOSIS PROGRAM By cooperation of the medical profession, the ers of modern medicine. tuberculosis association, official agencies and other community groups a well-halanced tuberculosis tunerculosis association, official agencies and official agencies agencies and official agencies agencies and official agencies functions:



HOW, TO SAVE \$300

AVING at the wrong place may lead to disasters. Of course, the treatment of tuberculosis patients in tax-supported institutions costs money. The tax-payers want to keep the cost of patient-days as low as possible. Saving taxpayers' money is popular, but let us make sure that we are not penny wise and pound foolish.

Adequate treatment of tuberculosis means not only curing sick lungs but also restoring the patient's earning power. Part of modern treatment is medical, part is social and economic.

Medical diagnosis leads to the proper prescription for medical treatment.

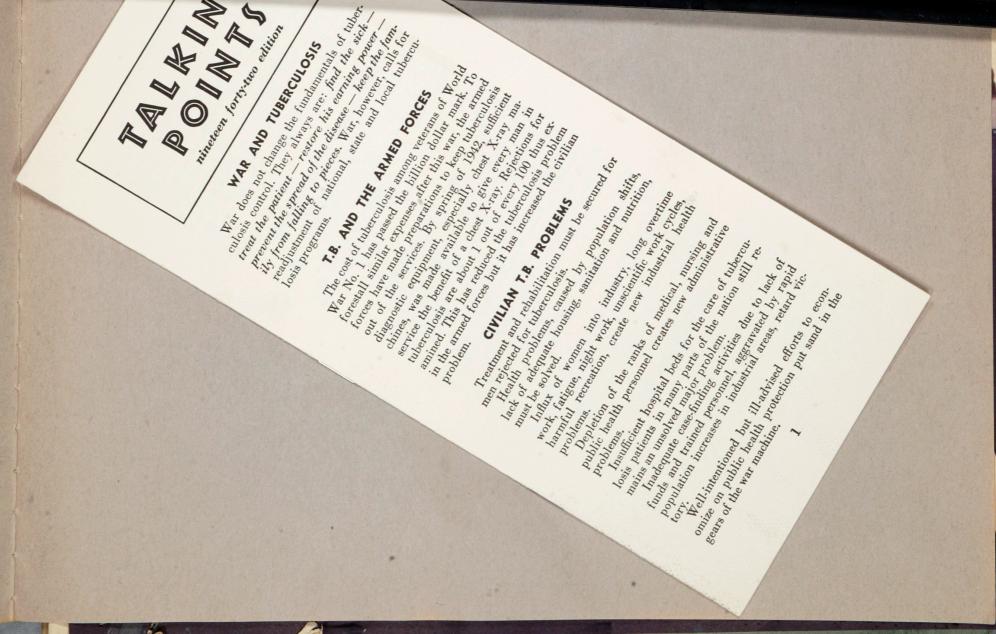
Social diagnosis takes stock of the patient's native ability, his aptitudes, his

schooling, so that he can be counseled, guided and retrained for self-supporting work in a paying job after his discharge from the sanatorium.

Keeping both the medical and the extramedical service of a tuberculosis institution at high standards is good economy. Bringing these costs down to a poorhouse level is the kind of saving the taxpayer can least afford. Cutting budgets below adequate medical and social needs will add many of the survivors of the fight against tuberculosis permanently to the relief load. It carries in itself the danger of having to do the "curing job" all over again because of reactivation of the disease.

Modern tuberculosis treatment—medical and social—costs very little more than old-time medical treatment alone. In the long run, it even costs less as the modern sanatorium returns self-supporting, newly-trained, useful workers instead of helpless and chronic invalids to swell public relief rolls. The modern sanatorium makes tax-payers out of tax-consumers.

The sanatorium gives the patient a chance to get well. By isolating the spreaders of the disease it prevents the development of new cases. There is our biggest saving.



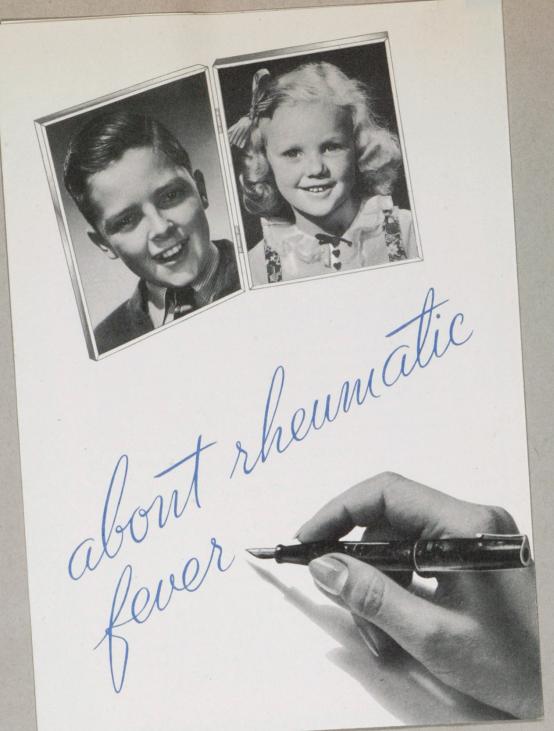
hePresenty

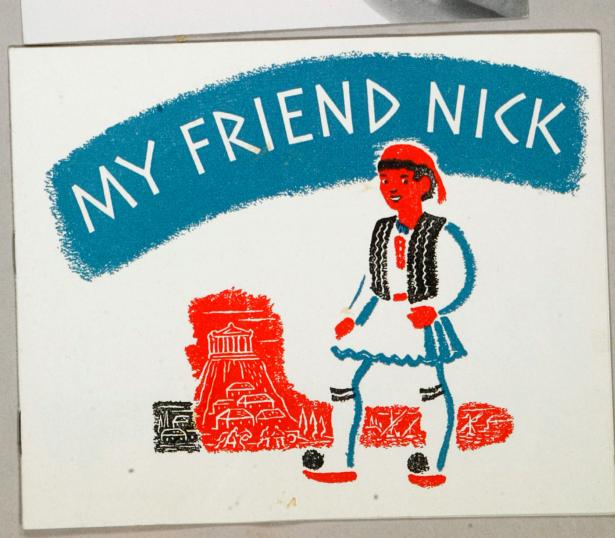


Sugar Rationing Begin May 4, 1942.

Is as. Rationing

Ration. Book no. 2 Beginning Deb. 22.





A Mother Writes:

Vear Coctor: Recently I read that rheumatic fever is one of the serious diseases which threaten children. I am the mother of a boy 10 years old and a girl 6 years old. I should like to know more about rheumatic fever, so that I can do everything possible to safe guard my Children against the dangers associated with it. Here are some questions which I should like you to answer: How can I tell if my child has rheumatic fever? What causes the disease? Is there a cure for it? Why is it so serious? Can a child have rheumatic fever more than once? No many children have the disease? What can I do to protect my children against it? What can a doctor or parent do for a child whose heart has been damaged by rheumatic fever? Lyou can give me any further information on the subject, I shall be very glad to have it. Thank you Sincerely yours

Louise Williams (7) Regarding precautions against rheumatic fever: Make sure that your children follow the rules of good personal hygiene, with medical examinations at frequent intervals. Rest, play, sunshine, and nourishing food will help to build up children physically, so that they may ward off sickness.

Children who have rheumatic heart disease are frequently treated as cripples. In fact they have been referred to as "cripples who do not limp." This is an impression that we must break down. Unless the heart is severely damaged by acute attacks of rheumatic fever the child should be allowed to live normally. By this I mean that he should be permitted a normal range of activities when the doctor so advises. He should be allowed to play and to enjoy other childhood pleasures, excluding strenuous competitive games which would place a strain on the heart and tax his strength. The child who has had a mild attack of rheumatic fever or who may have some degree of heart disease should not be coddled but should have "the run of the house" just as other boys and girls do. In short, he should be led to enjoy his home and school life, within certain limitations. Of course, this does not apply to the child who has had repeated acute and serious attacks of rheumatic fever and whose heart is severely damaged

Parents cannot be too careful when rheumatic fever strikes. But don't think, just because Johnny has been sick and may be abed as a result. again with rheumatic fever, that he is a chronic invalid. Leave it to the doctor to determine his resumption and range of activity. Don't pamper him, or else he may find it hard to adjust to a

So remember, Mrs. Williams, in ordinary rheumatic fever in children, the doctor treats the infection while it lasts, which normal life. may be a long and trying time. When that has passed and the child has no serious heart damage, he should be permitted reasonable activity, so long as he does not become unduly fatigued.

If you wish any additional information, please let me know.

H. B. Kelly, M.D.

(Note: The names used in this publication are fictitious.)



It is a pleasure to have your letter asking for information Dear Mrs. Williams: on rheumatic fever. Doctors are encouraged when parents display such an interest in the health of boys and girls. I am particularly glad to receive your inquiry concerning rheumatic fever, for two reasons: (1) If parents understand rheumatic fever and its aftereffects, they can help the medical profession in its efforts to control this disease, and (2) unnecessary fear has been aroused in many quarters concerning the seriousness of rheumatic fever.

As to the specific questions which you have asked, I am glad to give the following answers:

- (1) The signs and symptoms of rheumatic fever: Among the first or earliest warning signals the child may have are slight fever, nosebleeds, loss of appetite, failure to gain weight, rapid heart action, and pain (often vague and fleeting) in joints and muscles. These rather vague signs and symptoms make the disease difficult to recognize early. But this is why you should consult your physician if your child has any of these symptoms which you cannot readily explain. More definite signs that aid the doctor in diagnosis include nodules under the skin, very painful and inflamed joints, and high fever. The condition popularly known as St. Vitus!s dance, or chorea, causing emotional disturbances and nervous twitching, is now recognized as a manifestation of rheumatic infection. Of course, many children with nervous twitching do not have St. Vitus's dance.
 - (2) The cause and cure of rheumatic fever: The cause of this disease is unknown, though investigators are now studying the role which may be played by the streptococcus germ. There is no specific cure for the disease. Unlike diphtheria and other diseases against which the body builds up immunity following an attack, rheumatic fever can attack a child again and again. The period of life when the disease generally occurs is between 5 and 15 years of age.

- (3) The greatest danger from rheumatic fever: The damage done to the heart is the chief danger resulting from this disease The infection may strike at the delicate valves of the heart, causing scarring and deformity. Defective valves allow blood to leak back in the wrong direction instead of closing tightly at the proper times. The heart muscle, too, may be injured by the rheumatic infection and by the overwork caused by the leaky valves.
- 4) Your fourth question, regarding whether or not a child may have rheumatic fever more than once, has already been answered. However, I might add something further on this point. During the acute attack, a child should be kept in bed and under strict medical supervision. The period in bed may last weeks or months, according to the severity of the attack. By means of certain signs and tests, the doctor can tell when the illness has cleared up sufficiently to allow the child to lead a more normal life.
- (5) The prevalence of the disease: It cannot be stated accurately how frequently rheumatic fever occurs, because cases are not yet reported to health departments as are measles, diphtheria, and many other diseases. However, it is estimated by reliable authorities that there are probably 1,000,000 persons in the United States with the disease's most serious aftereffect--rheumatic heart disease. This causes 40,000 deaths annually. In the New England States it is conservatively estimated that 1 percent of school children have rheumatic heart disease.
- (6) What can be done for children with rheumatic heart disease: Close medical supervision may prolong the lives of children suffering from this disease. The child must be taught the importance of good personal hygiene, with emphasis on rest and good food. He must also be protected so far as possible from contact with those suffering from respiratory infections or sore throats. He should be protected against wet weather and dampness. While these precautions are no guarantee that a child will be spared, repeated attacks of rheumatic fever are less likely if these measures are followed.

(7) Regarding precautions against rheumatic fever: Make sure that your children follow the rules of good personal hygiene, with medical examinations at frequent intervals. Rest, play, sunshine, and nourishing food will help to build up children physically, so that they may ward off sickness.

Children who have rheumatic heart disease are frequently treated as cripples. In fact they have been referred to as "cripples who do not limp." This is an impression that we must break down. Unless the heart is severely damaged by acute attacks of rheumatic fever the child should be allowed to live normally. By this I mean that he should be permitted a normal range of activities when the doctor so advises. He should be allowed to play and to enjoy other childhood pleasures, excluding strenuous competitive games which would place a strain on the heart and tax his strength. The child who has had a mild attack of rheumatic fever or who may have some degree of heart disease should not be coddled but should have "the run of the house" just as other boys and girls do. In short, he should be led to enjoy his home and school life, within certain limitations. Of course, this does not apply to the child who has had repeated acute and serious attacks of rheumatic fever and whose heart is severely damaged

Parents cannot be too careful when rheumatic fever strikes. But don't think, just because Johnny has been sick and may be abed again with rheumatic fever, that he is a chronic invalid. Leave it to the doctor to determine his resumption and range of activity. Don't pamper him, or else he may find it hard to adjust to a

So remember, Mrs. Williams, in ordinary rheumatic fever in children, the doctor treats the infection while it lasts, which may be a long and trying time. When that has passed and the child has no serious heart damage, he should be permitted reasonable activity, so long as he does not become unduly fatigued.

If you wish any additional information, please let me know.

H. B. Kelly, M.D.

(Note: The names used in this publication are fictitious.)















NOTICE THIS PAGE IS FOR TEACHERS ONLY Encourage the children in your school to develop the following dental habits: 1. Eating plenty of plain nourishing foods such as: vegetables, fruits, whole Church & Dwight Co., Inc. grain cereals and bread and milk, dairy products, eggs and meat-and 70 Pine Street eating a minimum amount of sweets. New York, N.Y. 2. Eating some tooth exercising foods at each meal such as crusts, raw vegetables and raw fruits. 3. Carefully brushing the teeth at least twice a day—after breakfast and after supper (have the dentist show each child the best way to brush the teeth), using a small tooth brush and a good cleansing powder. (A good cleansing powder may be made by mixing one part of fine table salt with three parts of *baking soda or *baking soda may be used alone.) 4. Visiting the dentist at least twice a year for a thorough dental examination. *Arm & Hammer and Cow Brands Baking Soda are classified Also encourage children to take plenty of outdoor exercise and sleep and to as Acceptable Dentifrices by the Council on Dental Therapeutics of the American Dental Association protect themselves from the various childhood diseases.

54cm x 30cm

18cm x 24cm

Collected \$15.00 for Red Cross.

School 100% enrollement.

Have an enrollment of 40 pupilsaverage of twenty five stamps every four weeks_

avt A att