

# WAR SCIENCE INCREASES AS WAR GOES ON

By PETER EDSON  
WASHINGTON, Aug. 29 — One of the more amazing and frightful aspects about the "science" of modern war is the way it has of developing while in progress. And the uncensored reports of observers returning to the United States bear proof that every day, in every way, it is becoming worse and worse.

The case of airplane speed and armament is a perfect example of war's increasing efficiency. It was only two years ago that the shooting began—how time does fly—but in the lovely harvest season of '39, an airplane that could do 350 miles an hour was all right. Today it must do 400 to 450, or be shot down. Airplane engines that could rate 1000 or 1500 horsepower could get by, but today 2000 h. p. is a minimum, and 2500 or better must be achieved soon if there is to be superiority in the air. Planes that could climb to 30,000 feet were safe in '39, but today they must reach 40,000. Two machine guns and one cannon made combat planes pretty formidable in the old days, but today they pack three or four cannons and six or eight machine guns.

Newest device of death and destruction is reportedly the acoustic or harmonic mine. It is a successor to the magnetic mine, which became obsolete as soon as the magnetic belt was invented and all ships were equipped with this ring of cables through which a current was pumped to set up an induction field that would counteract the magnetic field of the mine, making it harmless.

Not much is known about the acoustic mine, but the principle of its operation is fairly simple. Instead of being set off by the ship's natural magnetic field, it is set off by the vibration of the ship's engine, the transmission of sound waves through water. It being practically impossible to build a vibrationless or perfectly silent ship, linking this acoustic mine may be a lot harder than overcoming the magnetic mine. One report in Washington is that the Germans have discontinued using the magnetic mine at sea, converting those on hand into land mines to drop by parachute from bombing planes.

**THIS MOTOR MISS NO MISS**  
Another ingenious use of sound waves has been figured out by the German technicians. When German bombers first came over England, it was noticed their engines, instead of having a steady, even roar, seemed to exhaust unevenly and at variable pitch. British plane builders were at first inclined to scoff, saying the nazis didn't know how to build good motors. But when the British plane detecting devices tried to pick up German ears by means of mechanical gears and radio listening posts, it was found that this uneven beat of the German motors made extremely difficult the task of telling quickly the height of an attacking bomber. Now, it is understood, British bombing plane engines are also being regared to give off the uneven drone beat so as to throw off German listening posts.

Chatter about the mysterious Sperry bomb sight, perfected for use by U. S. bombers, has of course been limitless. Hailed as the greatest secret weapon of the present war, it enables bombers to drop their eggs in pickle barrels from 15,000 feet with uncanny regularity. It has been generally assumed that this device was given to the British, but there now comes from the England reports that the Sperry bomb sight is of questionable value, for the reason that its use is dependent on perfect visibility—a condition on frequently found on the bombing ranges near Denver and the California deserts, but only infrequently in Europe.

**ANTI-AIRCRAFT ANTIQUATED?**  
Speaking of anti-aircraft guns, quite a point has been made that the United States defenses were practically a blank on this type of equipment. But some observers have returned with the theory that it doesn't make much difference, for anti-aircraft batteries seldom bring down a plane, and their use in keeping the bombers up high applies only to the area immediately above the battery.

Another idea of defense that the British have had to modify to a certain extent is the use of volunteer fire fighters to combat incendiary bombs. At first, it was the idea that the good tough Britons, springing from every cot, heath and hedgerow, would stomp out the fires and protect their homes from the despoiler. But it hasn't worked out quite that way. It takes nerve to check these incendiary fires when thousands of bombs are dropping over a

## Mechanics Need Meat To Keep Up Their Pep



Grapefruit, beef loaf, vegetables, whole-wheat bread, fruit and milk make a nutritious dinner for this mechanic's family.

By MRS. GAYNOR MADDOX  
NEA Service Staff Writer  
Every housewife should feed her family the correct variety of foods as specified by the "Nutritional Yardstick" developed at the recent conference on nutrition in Washington, but it's only common sense to know that an armchair addict does not need what a steel worker does.

If your husband is a mechanic, his job in an aircraft factory or garage requires an average daily caloric intake of from 2800 to 3300 calories in a well-balanced diet that includes meat or other complete proteins, milk, eggs, cereals, vegetables and fruit. Meat is important, not only to satisfy the natural hunger that comes from hard work, but to supply the vitamins and minerals newly found in meat (especially the vitamin B group) and the complete protein in meat that builds and maintains the body tissue, bone and muscle.

To maintain her husband's nutritional health the wife of the average mechanic should provide him with a well-balanced diet that includes two large servings of meat, fowl or fish at two meals or three average servings at three meals.

A typical day's menu should be this:  
**BREAKFAST** — Pineapple juice, cooked whole grain cereal, bacon, whole-wheat toast, jelly, coffee, milk.  
**LUNCH** — Cold sandwich meats, tomatoes, celery, raisin-bread, potato salad, orange custard, milk.

city, and under this type of raid, the volunteer is next to useless. What it takes is professional fire fighters on the job all the time. And the real reason that British ship yards, docks, munitions plants and plane factories have been able to keep up their splendid records of production is that all these strategic centers have been protected by professional fire fighting units who stick on the job like soldiers, while the volunteers head for the bomb cellars or the hills.

Any place you look, you'll always find a poor professional besiding a good amateur. Even at booting.

## PORTLAND TRADES GROUP IN VICTORY

WASHINGTON, Aug. 29 (AP) — The Building and Construction Trades Council of Portland, Ore., won a temporary victory today when Philip B. Fleming, wage-hour administrator, indicated the City Motor Trucking company of Portland would not be included in seasonal exemption for excavating, hauling and processing of crushed stone.

If no objection is filed within 15 days the order will be made final. The National Crushed Stone association filed an application on behalf of the Portland company for inclusion of its operations in the 14-week seasonal exemption extended to crushed stone operations whose season is limited by frost.

This would permit employees to work up to 12 hours a day and 56 hours a week for not more than 14 weeks a year without payment of overtime. It was granted to establishments in areas of low winter temperature. Notice of the preliminary intention to include the Portland company within the northern branch of the industry was opposed by the Portland Building and Construction Trades council and an examiner found the company did not regularly shut down six months a year; that its shutdown was caused by lack of demand for the company's products and was not caused by climatic or other natural conditions.

**Elsewhere in Oregon**  
By The Associated Press  
**CAVE JUNCTION, Aug. 29 (AP)**—The Illinois valley opened its mining celebration today. An historical parade will be the feature of the event on Labor day.

**MARSHFIELD, Aug. 29 (AP)**—The plant and retail outlet of Myrtlewood Crofters, Inc., will be moved from Marshfield to North Bend this fall, Earl M. Duncan, president, announced today.

**EUGENE, Aug. 29 (AP)**—The Western Oregon Turkey Growers' association has elected Maurice Buxton, Molalla, president. Other officers include O. C. Brown, Roseburg, vice president; James E. Conn, Roseburg, manager and secretary-treasurer; Eugene Fisher, Roseburg, director.

**ALBANY, Aug. 29 (AP)**—The

## Your Husband a Cop or Postman? Feed Him Well

By MRS. GAYNOR MADDOX  
NEA Service Staff Writer  
Total defense begins at home. To protect your family against runaway food prices, hidden cuts in quality of processed foods, against local profiteering and inadequate supplies of essential foods, you, yourself, must do something. Don't leave the job to others while you sit home and complain.

Harriet Elliott, associate administrator and consumer adviser, Office of Price Administration and Civilian Supply, says: The basic principle which should guide measures for consumer protection is effective use of available community resources and participation by all groups of consumers in the community.  
"Democratic defense depends," she adds, "on making these problems a matter of community concern, a responsibility of all. At the same time it is of primary importance that the efforts of various groups, such as women's clubs, church groups, labor organizations, church organizations, etc., be integrated and co-ordinated, and that the gaps between separate efforts be filled in. It is the function of

daughter and twin sons of Mr. and Mrs. Ernest Gourley of Albany, Ruth, Stanley and Stuart, took first place in every event they entered in the Linn county 4-H and FFA fair here. Stanley won three firsts, Stuart two and Ruth one.

**MUCH WORKED**  
The balance and hairspring of a watch vibrates 18,000 times an hour, more than 157,000,000 times a year, and emits as many ticks during its daily duties.

**LONELIEST POLICEMAN**  
The loneliest policeman in the world is the Royal Canadian Mounted constable who is posted 1000 miles north of Hudson bay, only 700 miles from the North pole.

state and local defense councils to provide such coordination and to take the lead in filling the gaps."

These state and local defense councils are of vital importance to every local woman. The consumer representative on these councils has two general responsibilities: (1) to see that the needs of civilian consumers are considered and cared for as the defense program develops in states and localities; (2) to help direct the activities of local consumers so that their industrial and group action may keep their living costs within bounds and protect their living standards. If the food stamp plan is in the community, see that it is widely advertised and utilized. If the plan is not in operation locally, investigate the need and apply for its introduction if conditions warrant; encourage the school lunch program and nutrition education classes and cooperative gardening and preserving programs; see that milk is available to all. Support the "penny-a-glass" program for school children, low-cost milk programs, and dry skim milk for homes where the cost of regular fluid milk is prohibitive.

**SALEM HOP CROP PICKERS NEEDED**  
PORTLAND, Aug. 29 (AP) — Although Marion county's bean crop has been saved by volunteer Salem labor, the shortage of hop pickers in Independence and Salem areas has become critical, E. R. Lovell said Thursday.

Lovell, acting director of the state employment service, said thousands of pickers were needed at once and more would be needed later in the season. "The employment service is calling upon every available person in the state to help harvest

one of Oregon's best hop crops," Lovell added. Farmers in the Dayton area reported shortages of workers and the setting of records in various fall crops. Tom Kirkwood, Hopewell, said he had 40 acres of prunes ready for picking but had been unable to hire even one picker.

At the farm of Mrs. Clarence Badger, one family of four, including two small boys, picked 1367 pounds of beans. A one-day record of 25 tons of sweet corn was set at the Ersel Gubser

farm, Grand Island, by a crew of 25 persons.

**SUPERSTITION**  
The humming bird was sacred to the Aztec god of war and men in some Mexican villages still hang the dead body of a humming bird about their necks to gain the love of a woman.

**SMALL ARMY UNIT**  
The squad is the smallest war-strength unit in the United States army, and consists of 12 men commanded by a sergeant or corporal.

These Are Our Everyday Chicken Prices!

### Trulove's Chicken Center

919 EAST MAIN SATURDAY SPECIALS!

**FREE Delivery** Phone 4282

WHITE HENS	..... Lb. 19c
Short Ribs of Beef	..... 1-lb. 15c
Pork Steak	..... 1-lb. 25c
Bacon Pieces	..... 1-lb. 19c

THE HOME OF GOOD FRESH EGGS

## FRYERS Lb. 25c

Dressed White You Wait

Plenty of Free Parking Space

## KLAMATH WOMEN GET A'S AT SOCE

ASHLAND, Aug. 27 (Special) — The following students received a grade point average of 4.0, or all A's, during the second summer session at the Southern Oregon College of Education: Edmund Dews, Ashland; Paul Icenhower, Ashland; Ruth MacCollister, Ashland; Augusta B. Parker, Klamath Falls; Zelma Pool, Beatty; Marie Prescott, Ashland; Helen A. Prince, Klamath Falls; and William Wilson, Medford.

P stands for PEPPER full of flavor and zest Ask your grocer for Schilling you're sure of the best!

## Schilling

37 SPICES - 19 EXTRACTS

## PALACE MARKET

GROCERIES AND MEATS

Phone 4108 A Home Owned Store 524 Main St. Free Delivery Phone 4108  
Free Parking... Customer Parking Lot at 8th and Pine... We Reserve Right to Limit

MEAT SPECIALS		Only Fresh Fruits and Veg.	
Rump		Parships	3 lbs. 19c
Roast of Beef . lb.	23c	Mustard Greens	3 lbs. 19c
Shoulder		Yellow Squash	Per Lb. 5c
Veal Steaks . . lb.	25c	Ashland Pears	Per Lb. 5c
Shoulder		Peaches	Elberta Per Crate 89c
Veal Roast . . . lb.	23c	Onions	Dry Yellow 4 lbs. 19c
Pot Roast Lb.	17c-19c		

**SPECIALS FOR SATURDAY**

Mission Brand Tomatoes 2 No. 21 cans	25c	Drip or Regular Grind MJB Coffee 1 pound	29c	Diamond Crystal Shaker Salt 2 packages	19c
Pheasant Brand Peas 2 cans	29c	Pard Dog Food 3 cans	27c	Tru Pak—Yellow Freestone No. 21 cans	25c
Formy Shortening 3 lbs.	59c	Best-Ever (Fresh egg Noodles) 1 pound	23c	Pia-Safe Matches Carton	23c
Wheaties 2 packages	25c			Monopole Jam All Varieties 1 quart	39c

# WHITAKER'S

Phone 4803 Free Delivery of \$2.00 Orders

## GROCETERIA

WE RESERVE THE RIGHT TO LIMIT! 1205 Klamath

**Picnic & Outing SPECIALS**

Swift's Premium C. Beer 12 oz. can	27c
Swift's Premium Prem 12 oz. can	31c
Swift's Pickled Po'k Feet 14 oz. jr.	26c
Swift's Premium—Vienna Sausage 3 cans	29c
Swift's Premium—Deviled Meat 6 cans	25c
Van Camp—Pork & Beans 2 lg. cans	27c
Klamath Leaf Cheese 2 lb. loaf	59c
Pkgs. of 80—Paper Napkins 3 pkgs	23c
Century Chopped—Ripe Olives 4 1/2 oz. can	9c
Cascade Soda Crackers 2 lb. box	17c
Seagull—No. 1 cans Sardines	5c

**Tang . . . . Qts. 33c**  
Del Monte Early Garden 303's Peas . . . . 2 cans 25c

**TENDER MEATS**  
Specials for Saturday Only  
Fancy Steer Beef Roast . . lb. 17 1/2  
Fancy Milk Fed Veal Shoulder Steak lb. 23  
Veal Roast . . . lb. 19c  
For the Double Holiday  
Swift's Premium Quick Serve Ham Lb. 37  
Cooked, ready to eat, half or whole  
Swift's Premium Sliced Bacon 1/2 lb pkg. 19c  
Swift's Assorted Lunch Meat . . lb. 25c  
Swift's Dried Bacon Squares, lb. 17c  
Swift's Premium—Dinner size Tender Franks lb. 29c

**Specials for Saturday and Tuesday**  
WE WILL BE CLOSED ALL DAY LABOR DAY

IVORY SOAP Medium Bars	3 Bars 17c
IVORY SOAP Large Bars	3 Bars 29c
SUNBRITE CLEANSER	3 Cans 10c
PEAS Libby Fancy No. 303 Can, 3 Sieve	2 Cans 25c
CATSUP 12-oz. Bottle	10c
CORN FLAKES Alber's	Pkg. 5c
TOMATO JUICE Del Rogue, 3/4 Can	10c

**FRUITS and VEGETABLES**  
SPECIALS FOR SATURDAY ONLY

Bartlett Pears . . .	25-lb. lug. 49c
Choice Hale Peaches .	22-lb. lug 95c
Oranges, 288 size, . . .	2 doz. 23c
Gravenstein Apples . . .	Box \$1.39
Corn Extra fancy, local grown	Dozen 25c
Local New Potatoes . .	10-lbs. 15c

**Pancake & Waffle Flour** Fisher's 9 Lb. Sack 49c

**ROYAL GELATIN** 3 Delicious Flavors 3 Pkgs. 14c

**ROYAL PUDDING** Vanilla, Chocolate, Butterscotch 3 Pkgs. 14c

**Richtex** Shortening 4 Lb. Can 49c

**Coffee** Our Leader 1 Pound Package 17c  
Drip or Regular—Quality Guaranteed

**Hi-Ho Crackers** Pkg. 19c

**Dog Food** Kennel Club 6 Cans 25c

**Honey** U. S. Fancy, Klamath County 5 Lb. Can 35c

**Swansdown Flour** 49 Lb. Sack \$1.84

**Quick Cooking Wheat-A-Lone** 1ga. pkg. 15c  
The Perfect Wheat Cereal

**National Biscuit Shredded Wheat** Pkg. 10c

**Doumak's—Snow White Marshmallows** 1 Lb. Pkg. 12c

**Century Sweet Pickles** Quart Jar 28c

**Hill's Bros. Red Can Coffee**  
1 Lb. 30c  
2 Lb. 58c  
Can 58c