

HOW WILL JAPAN SUPPORT PEOPLE?

To Feed, Clothe and House 70 Million Decently, It Must Increase Manufacturing Industries.

By Science Service

WASHINGTON, Sept. 10.—Deflated Japan will necessarily have to increase her manufacturing industries in the next few years if her 70 million people are to be decently fed, clothed and housed. The country's heavy metal industries, that made possible the building of war machines, can be controlled by the United Nations because the Japanese islands lack the raw materials for making them and must rely on imports.

Japan cannot rely on agriculture alone because there is not enough farm land in the islands to raise all the food required. The rehabilitation of her former great fishing industry will help feed the population and also bring in a cash income again from foreign sales. The production of raw silk, the sales of which in prewar days was 14 per cent of the value of her total exports, can be increased, and silk manufacturing can become a more important home industry.

Forests Could Be Used

Wood products, not particularly important in the past, might well become one of the principal means of support of the Japanese people.

The four main islands have some 40 million acres of forests, some good and some poor, but containing vast quantities of timber suitable for almost every use and for the production of vast quantities of some of the newer wood products, including chemicals. Much of the timber is virgin, being in hard-to-reach mountainous places.

Approximately one-half the forest area of Japan is under government or other public ownership, and has been carefully preserved as a soil and water conservation project. These areas, however, can be safely logged under modern sustained-yield methods without interference with their conservation values.

Japanese forests contain a great variety of trees because of climatic conditions. The north is kept cold by icy ocean currents from Bering sea, and the south is warmed by the so-called Japanese current that washes the shores of the Philippines, the Ryukyu Islands, Kyushu, Shikoku and southern Honshu.

More Land Available

The gross land area of California-size Japan proper is about 97 million acres, of which about 15 million acres are under cultivation. Another five million acres, if cleared, drained, terraced or otherwise developed, could be brought under cultivation. About one-half the present cultivated land is used for rice growing. Barley, rye, wheat, millet, beans and potatoes are the principal food crops grown on the other half. Tea for home use and exports is also important.

Japanese farms are necessarily small. In 1938 there were more than five million farm households. Agriculture is of the intensive type, practiced, however, almost wholly with hand tools. Yields are fairly high, but could be increased with the use of fertilizers. As relatively few cattle are raised, barnyard manure is scarce, and imported chemical fertilizers are too costly for most farmers. Fish fertilizers, from the great Japanese fishing industry, are used. In spite of intensive farming, Japan has had to import food.

LOCAL PRODUCE

Saturday, Sept. 2
(Prices for products delivery)
All bread, $\frac{1}{2}$ lb. 24c.
All bread, $\frac{1}{2}$ lb. 35c.
Biscuits, $\frac{1}{2}$ lb. 24c.
Butters, $\frac{1}{2}$ lb. 28c.
Eggs—Current receipts, 35c; grade A, 38c; grade B, 32c; medium, 35c; under grade, 32c. Butterfat—No. 1, 50c. Butterfat—No. 1, 50c.

Business Directory

LEVINSON has the STRAWS \$245 to \$750
MAKING WOODWORKING YOUR HABBY—DEA
DELTA MOTOR DRIVEN TOOLS EXCLUSIVELY AT VONNEGUT'S 120 E. Washington St.

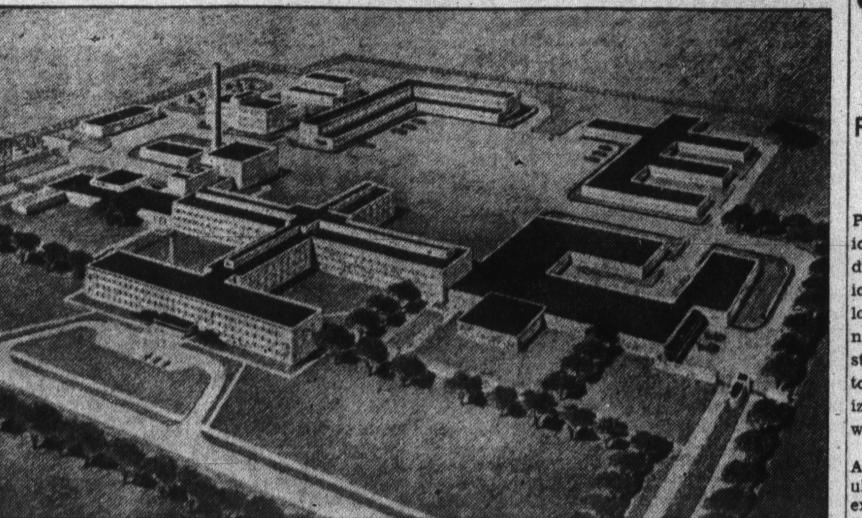
SEYMOUR'S ASKIN & MARINE STORE 111 W. Washington St.

SAXOPHONE \$1.25 Instruction 1 Lesson Per Week INDIANA MUSIC CO. 115 E. Ohio St.—Fr. 1134

RE-WEAVING of MOTH HOLES—BURNS or WORN SPOTS LEON TAILORING CO. 235 Mass. Ave. In the Middle of the First Block

PEARSON'S 128 N. Penn. LI-5513 RECORDS • SHEET MUSIC BAND INSTRUMENTS FURNITURE • PIANOS Day Phone EL 5307 Night Phone EL 7066

Standard Oil Starts New Laboratories at Hammond



This architect's sketch shows how the new laboratories being built by Standard Oil Co. of Indiana at Hammond will look when completed. They will cover two city blocks adjacent to Standard's Whiting refinery, the largest complete refinery in the world. Excavation is under way for the main administration and chemical engineering building, general laboratories and three pilot-plant buildings. Construction of an engine laboratory, additional pilot-plant buildings and other research facilities will follow. The company now has 200 technologists and 260 other research workers in old somewhat cramped quarters scattered throughout the Whiting plant.

4900 Hogs Received Here; Prices at \$14.80 Ceiling

About 4900 hogs were received at the Indianapolis stockyards today, the war food administration reported. Prices remained at the \$14.80 ceiling in an active market.

The \$14.80 level prevailed not only for good to choice butchers from 160 pounds up but also for the bulk of the 140 to 160-pounders.

Receipts also included 1775 cattle, 775 calves and 1425 sheep.

Cattle sales were more active than last week's, with some price recovery noted on most classes. Vealers advanced 50 cents to Friday's best prices.

LOCAL ISSUES

Nominal quotations furnished by Indianapolis securities dealers:

STOCKS	Bid Asked	Packing News
Agents Fin Corp.	1 1/2	Good to Choice
1 1/2	20	400 pounds
1 1/2	20	400-600 pounds
1 1/2	20	600-800 pounds
1 1/2	20	800-1000 pounds
1 1/2	20	1000-1200 pounds
1 1/2	20	1200-1400 pounds
1 1/2	20	1400-1600 pounds
1 1/2	20	1600-1800 pounds
1 1/2	20	1800-2000 pounds
1 1/2	20	2000-2200 pounds
1 1/2	20	2200-2400 pounds
1 1/2	20	2400-2600 pounds
1 1/2	20	2600-2800 pounds
1 1/2	20	2800-3000 pounds
1 1/2	20	3000-3200 pounds
1 1/2	20	3200-3400 pounds
1 1/2	20	3400-3600 pounds
1 1/2	20	3600-3800 pounds
1 1/2	20	3800-4000 pounds
1 1/2	20	4000-4200 pounds
1 1/2	20	4200-4400 pounds
1 1/2	20	4400-4600 pounds
1 1/2	20	4600-4800 pounds
1 1/2	20	4800-5000 pounds
1 1/2	20	5000-5200 pounds
1 1/2	20	5200-5400 pounds
1 1/2	20	5400-5600 pounds
1 1/2	20	5600-5800 pounds
1 1/2	20	5800-6000 pounds
1 1/2	20	6000-6200 pounds
1 1/2	20	6200-6400 pounds
1 1/2	20	6400-6600 pounds
1 1/2	20	6600-6800 pounds
1 1/2	20	6800-7000 pounds
1 1/2	20	7000-7200 pounds
1 1/2	20	7200-7400 pounds
1 1/2	20	7400-7600 pounds
1 1/2	20	7600-7800 pounds
1 1/2	20	7800-8000 pounds
1 1/2	20	8000-8200 pounds
1 1/2	20	8200-8400 pounds
1 1/2	20	8400-8600 pounds
1 1/2	20	8600-8800 pounds
1 1/2	20	8800-9000 pounds
1 1/2	20	9000-9200 pounds
1 1/2	20	9200-9400 pounds
1 1/2	20	9400-9600 pounds
1 1/2	20	9600-9800 pounds
1 1/2	20	9800-10000 pounds
1 1/2	20	10000-10200 pounds
1 1/2	20	10200-10400 pounds
1 1/2	20	10400-10600 pounds
1 1/2	20	10600-10800 pounds
1 1/2	20	10800-11000 pounds
1 1/2	20	11000-11200 pounds
1 1/2	20	11200-11400 pounds
1 1/2	20	11400-11600 pounds
1 1/2	20	11600-11800 pounds
1 1/2	20	11800-12000 pounds
1 1/2	20	12000-12200 pounds
1 1/2	20	12200-12400 pounds
1 1/2	20	12400-12600 pounds
1 1/2	20	12600-12800 pounds
1 1/2	20	12800-13000 pounds
1 1/2	20	13000-13200 pounds
1 1/2	20	13200-13400 pounds
1 1/2	20	13400-13600 pounds
1 1/2	20	13600-13800 pounds
1 1/2	20	13800-14000 pounds
1 1/2	20	14000-14200 pounds
1 1/2	20	14200-14400 pounds
1 1/2	20	14400-14600 pounds
1 1/2	20	14600-14800 pounds
1 1/2	20	14800-15000 pounds
1 1/2	20	15000-15200 pounds
1 1/2	20	15200-15400 pounds
1 1/2	20	15400-15600 pounds
1 1/2	20	15600-15800 pounds
1 1/2	20	15800-16000 pounds
1 1/2	20	16000-16200 pounds
1 1/2	20	16200-16400 pounds
1 1/2	20	16400-16600 pounds
1 1/2	20	16600-16800 pounds
1 1/2	20	16800-17000 pounds
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1 1/2	20	17600-17800 pounds
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1 1/2	20	18000-18200 pounds
1 1/2	20	18200-18400 pounds
1 1/2	20	18400-18600 pounds
1 1/2	20	18600-18800 pounds
1 1/2	20	18800-19000 pounds
1 1/2	20	19000-19200 pounds
1 1/2	20	19200-19400 pounds
1 1/2	20	19400-19600 pounds
1 1/2	20	19600-19800 pounds
1 1/2	20	19800-20000 pounds
1 1/2	20	20000-20200 pounds
1 1/2	20	20200-20400 pounds
1 1/2	20	20400-20600 pounds
1 1/2	20	20600-20800 pounds
1 1/2	20	20800-21000 pounds
1 1/2	20	21000-21200 pounds
1 1/2	20	21200-21400 pounds
1 1/2	20	21400-21600 pounds
1 1/2	20	21600-21800 pounds
1 1/2	20	21800-22000 pounds
1 1/2	20	22000-22200 pounds
1 1/2	20	22200-22400 pounds
1 1/2	20	22400-22600 pounds
1 1/2	20	22600-22800 pounds
1 1/2	20	22800-23000 pounds
1 1/2	20	23000-23200 pounds
1 1/2	20	23200-23400 pounds
1 1/2	20	23400-23600 pounds
1 1/2	20	23600-23800 pounds
1 1/2	20	23800-24000 pounds
1 1/2	20	24000-24200 pounds
1 1/2	20	24200-24400 pounds
1 1/2	20	24400-24600 pounds
1 1/2	20	24600-24800 pounds
1 1/2	20	24800-25000 pounds
1 1/2	20	25000-25200 pounds
1 1/2	20	25200-25400 pounds
1 1/2	20	25400-25600 pounds
1 1/2	20	25600-25800 pounds
1 1/2	20	25800-26000 pounds
1 1/2	20	26000-26200 pounds
1 1/2	20	26200