

India, Too, Harnesses Rivers to Feed Millions

The United States, with all its technical and industrial resources, still has not completely solved the problem of controlling and utilizing its rivers. The Tennessee Valley Authority has proved a model for the engineers of the world, but there is still much to be done. Only 20 per cent of the water in rivers and streams of the Missouri River Basin is being used for irrigation.

The Republic of India, America's sister republic in Asia, still has an immeasurably greater job ahead. It is estimated that only six per cent of the water in the country's rivers is now being utilized.

But the Government of India is determined to harness the rivers and end two strange contradictions—India, a predominantly agricultural nation, must import millions of tons of food; India, a nation rich in natural resources, has a population that is largely poor.

The yield per acre in India is now among the lowest in the world, because of primitive methods of farming and an unreliable water supply. Out of 231,000,000 acres of

cultivated land, only 48,000,000 are irrigated. The remaining 81 per cent of the land depends for successful crops on the whims of the capricious monsoon and faces the twin risks of drought and flood. India has been forced to import a minimum of 6,000,000 tons of grain a year to prevent famine—and India's population is growing at the rate of 4,000,000 a year.

BILLION FOR PROJECTS
The Government of the new Republic—which celebrated its second Republic Day on Jan. 26, 1952—has given control of the rivers top priority. The National Planning Commission, in its draft of the Five-Year Plan, allocated 30 per cent of the total outlay of \$3,135,300,000 (to be spent on one part of the plan) to irrigation and power projects.

Already, the Central Government and 23 of the States have between them some 125 large and small projects actually under execution. Twelve of these are major projects costing more than Rs. 100 million (\$21,000,000) each. Eight are multi-purpose river valley projects. The largest and most advanced of these is the Bhakra-Nangal project in the Punjab. Two other large multi-purpose projects under execution are the Damodar Valley project (in West Bengal and Bihar), costing Rs. 749 million (\$157,800,000) and the Hirakud project (in Orissa), costing Rs. 626 million (\$131,400,000).

At the end of the Five-Year Plan in 1956, it is expected that irrigated land will be increased by 8,800,000 acres and that when the major projects are fully completed the increase will be 16,500,000 acres. This will mean that India's present irrigated area will be increased by about one third.

FOOD INCREASE EXPECTED
These irrigation projects and the reclaiming of land are expected to boost India's annual yield of food by 7,200,000 tons by 1956. Power generation is expected to increase by 1,100,000 kilowatts by the end of 1955—a gain of about 50 per cent over the present total generating capacity.

This country's TVA has been an inspiration to India's planners and the Damodar project is modeled on it. American and European engineers have been called in to help. One of them is Dr. S. L. Savage, former Chief Engineer of the U.S. Bureau of Reclamation.

India will not end the campaign to harness the rivers with the completion of the Five-Year Plan. The National Planning Commission has already recommended that a 15-year irrigation and power development plan should be drawn up.

Rotenone Cattle Grub Controller

Treating cattle with rotenone offers the best method of controlling cattle grubs. The material may be

SURVEY TAKEN

The Modoc National Forest has made the usual monthly snow surveys early this month on the Cedar Pass and Swagert Flat snow courses. On the 7050-foot elevation of Cedar Pass the snow measured 81 inches with an average water content of 29 inches. On the 6390-foot elevation of the Swagert Flat Course the average snow depth was 76 inches with an average water content of 30 inches. This water content at Swagert Flat is a 50 per cent increase over the Feb. 1 measurement.

Any of these names on your washing machine?

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- Westinghouse
- Jacobs Laundry
- Apex Wash-A-Matic
- General Electric
- Thor
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- Norgis
- Hoppoint
- Blackstone
- Maytag
- Universal
- Bartron
- One Minute
- Dealer
- Speed Queen
- Taylor
- Duxess
- Voss
- Frondyhat
- ABC
- Carlon
- Automatic
- Horton Laundry



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Modoc Bull Sale Set For Oct. 16

CEDARVILLE—October 6 has been selected the date for the 1952 Modoc County Range Bull Sale, according to Secy.-Mgr. Walk Rodman.

Dan Hill has been reelected chairman of the event. Ninety head of bulls will be accepted, with eight bulls per consignor featuring one pen of two or three bulls per consignment, if desired.

A sale of feeder calves to 4-H and FFA boys and girls is slated to precede the bull sale. Fifteen calves have already been signed up for this event.

Cost per bull to consignor will be \$25 this year, with hay and straw furnished. The committee is following a policy of first come, first served.

Conservation Meet Theme

OREGON STATE COLLEGE—An internationally recognized authority on conservation, Dr. Stanley Cain of the University of Michigan, will be leader for the 13th annual biology colloquium at Oregon State college Saturday, April 19.

This year's theme will be conservation of biological resources. The one-day meeting, which includes general sessions and special luncheon and dinner meetings, is sponsored by the OSC chapter of Phi Kappa Phi and the school of science.

Dr. Cain is head of the department of conservation in Michigan's school of natural resources. Other speakers will include Dr. Henry J. Vaux, former OSC school of forestry staff member, now forest economist, University of California; Joseph Pecharne and Leo A. Isaac, Pacific northwest forest and range experiment station, Portland; and Dr. C. V. Plath, OSC agricultural economist.

Bonus Bonds To Be Asked

SALEM — A new attempt to persuade federal officials to approve Oregon's 40 million dollars worth of World War II veterans bonus bonds will be made next week.

State Treasurer Walter J. Pearson and his deputy, Fred Paulus, will confer in Washington, D.C., late next week with Secretary of the Treasury John W. Snyder, Charles E. Wilson, defense mobilizer, and members of the Federal Reserve Board.

The government rejected the bonus bond issue last fall on grounds it would be inflationary. Pearson and Paulus will leave here Saturday. They first will go to New York to sign 15 million dollars of Oregon highway bonds. Pearson said that the government's distribution of 200 million of veterans' insurance dividend checks is more inflationary than Oregon's bonus bonds would be.

The first two-night doubleheader in Brooklyn for the Dodgers this season will be against the Boston Braves on April 22.

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applied as a spray or dust, reports Farm Advisor Ken Bagholt of the University of California, Tulare. For most effective control, treatment should be applied about 30 days after the appearance of the first grubs in the backs of cattle, and then at 30 to 45 day intervals throughout the grub season. If such regular treatments are impossible, then applying the control material at the peaks of abundance is recommended.

Community or area bands bring best results. The fly stage of the grub can move as far as a mile, going from an untreated herd to a treated herd. Natural barriers such as hills and streams tend to retard the movement of these pests. More information about control methods is contained in the pamphlet, "Cattle Grubs Steal Your Profit," available at your Farm Advisor's Office in Tulare.

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