

Latin American Food Production Fails To Keep Pace With Needs

By FRANK BRUTTO
RIO DE JANEIRO (AP)—For years food production has not kept pace with the growth of population in Latin America—and the worst is yet to come. There are 200,000,000 mouths to feed now. In 20 years the number is expected to be 360,000,000.

The answer? Authorities agree that land reform, splitting up the estates where necessary and putting all available soil to better use, are a key element in the problem. This is a key element of the Alliance for Progress program which the United States is backing.

What, then, of land reform? Is it getting anywhere?

Reports from Associated Press bureaus show progress in spots, but in general little accomplished so far.

Argentina, once a prime supplier of wheat, has almost dropped out of the world market for this commodity. Brazil, which has replaced Argentina as Latin America's biggest agricultural producer, urgently needs better land utilization.

Mexico, with a 45-percent gain in agricultural produce in 25 years, has made notable progress. Venezuela is making some progress. But land reform is a tremendous problem for nearly all countries in Latin America.

Population density is not yet high in Latin America. The United Nations food and agriculture organization estimates that only about five per cent of the land has been brought under cultivation, compared with more than 10 per cent for the world as a whole. Farm efficiency is low.

From Associated Press bureaus came these details on the big problem:

Argentina—Deposed president Arturo Frondizi presented an agrarian reform bill in 1958 authorizing expropriation of land with payment for it. The bill never got out of committee.

The 1961-62 wheat crop was 15 per cent less than that of 1954-55. Nonetheless, 85 per cent of Argentina's foreign exchange is still earned through exports of meat and agricultural products.

Peru—Some Indian farm workers make only a penny a day. Little agricultural development has taken place since Francisco Pizarro of Spain conquered the country in 1475. Most of the arable land is held by a few wealthy owners who oppose reform.

Chile—A moderate agrarian reform plan is part of a major economic and social overhaul within the framework of the Alliance for Progress. Communists and socialists have attacked it as "too soft" and demanded outright expropriation. A government study shows four per cent of the landowners control 53 per cent of Chile's arable land.

Colombia—Land reform faces

Oppathy and sufficient trained personnel to administer it. The law authorizes expropriation of private land not fully exploited.

Venezuela—Agrarian reform here, although far from complete, is one of the best in Latin America. Land titles have been granted 33,000 campesinos of an eligible 350,000 since President Romulo Betancourt took office in 1959 with the slogan "land for him who works it." One sign of success was a nine-per-cent agricultural produces increase in 1962.

OTTAWA (CP)—A Canadian passport found in a Sydney, Australia, graveyard during investigation of Soviet spying in that country has the same number as one issued in Canada Sept. 6, 1960, to Andrew Haha, who lived in Toronto at that time.

An official of the external affairs department said here that if the passport found it

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valid it is the one issued to not know whether the passport was a naturalized Canadian is a forgery. Of Czechoslovakian origin who had lived in Canada since 1927 after the passport was issued. However, the original is filed by Canadian officials.

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AWAITS AGE RULING

Glenna Steveson of Saskatoon, 10-year-old gymnastic specialist, will represent Canada in the Pan-American Games in Brazil if game officials rule there is no minimum age limit. She can't compete for the Canadian senior gymnastic title until she is 16.

NUCLEAR OR CHEMICAL?

Decision Is Due Soon On U.S. Rocket Engine

By RALPH DIGHTON
Associated Press Science Writer
JACKSON FLATS, Nev. (AP)—By mid-year President Kennedy is expected to reach a decision that could be the most important yet in the brief history of the space age: Whether to throw more millions into the effort to develop nuclear rockets. Tests now under way will help him weigh the benefits against the hazards.

Among the benefits could be a whole new space technology. The same technology could bring giant military satellites capable of dominating near-earth space.

Among the hazards is an almost certain increase in radiation. This increase, coupled with additional radiation expectable during periods of intense solar flare activity, could be just enough to keep men grounded many weeks each year—especially if there are more high-altitude nuclear tests or accidental explosions of nuclear power plants during the space-test phase.

Either would send great bursts of radiation surging through the already lethal Van Allen radiation belts surrounding earth. Both can be expected.

These are technical problems and probably could be met by shielding men and equipment by launchings during low radiation periods.

By mid-year the nuclear rocket effort, known as Project Rover, will have cost about \$70,000,000. Officials have estimated the total will rise to \$1,000,000,000 before the first nuclear-powered spaceship flies. Is the new nuclear-candle worth the cost or should the money be used to perfect today's chemical-fueled rockets?

It's a tough question.

Suppose the United States decides to go slow on nuclear rockets, as it did with missiles in the early 1950s. Suppose another nation pushes ahead, develops nuclear space engines despite the obstacles. That nation could fly if it chose to, and from space the earth.

That's one reason not only Washington but the world is watching the tests here on Jackson Flats of an admittedly crude and catastrophic nuclear engine.

Basically it is a small nuclear reactor, capable of generating heat comparable to that on the surface of the sun. This heat is used to expand liquid hydrogen, expelled as a gas at great speed through a nozzle.

It differs from chemical rocket engines in the speed with which the gas is expelled, which in turn determines the speed of the vehicle.

HAS HIGH RATING

Scientists use a term, specific impulse, to rate rocket engines. Chemical rockets have a specific impulse of 300—their exhaust exerts 300 pounds of thrust for every pound of propellant that flows through the engine each second.

With nuclear heat instead of chemical combustion, scientists hope to achieve a specific impulse of 800—more than twice the power possible from today's liquid and solid chemical rockets.

Even more important than the increase in power is the accompanying decrease in vehicle weight. This means greater payload.

Scientists figure a nuclear stage capable of reaching Mars from earth orbit (radiation prohibits ground launching) would weigh about 1,000,000 pounds. A comparable chemical rocket would weigh 10,000,000 pounds.

Liquid hydrogen is lighter in weight than today's all-based fuels but yields more energy per pound.

NEW METHODS NEEDED

Most experts agree chemical rockets cannot be made powerful enough to boost multi-ton payloads beyond the moon. If man wants to go to the planets, he must develop better propulsion.

The nuclear engines now being tested here are called Kivis, after a New Zealand bird that can't fly, because they will never be placed in a spaceship even for testing.

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Manufacturer's Special! COTTON KNIT SUITS

Suits to wear now through Spring. Several smart styles from which to choose. Plain and patterned knits. Skirts are fully lined. Assorted colours. Sizes 10 to 18.

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Imported cotton suede "club" jacket styling—kni collar, cuffs and waist band. Zipper front. 2 slash welt pockets. 1 zipper breast pocket. Woven cotton tartan lining. Colours rust, loden, navy. Sizes 6 to 18.

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EATON'S SPOTLIGHT SALE, sq. yd. **6.99**

Examples: For an area 12 x 15'

Carpet	139.80
Airy-tred	33.80
Labour and smooth edge	30.00
Size 9' x 9'	each 67.91
Size 9' x 10'6"	each 78.40
Size 9' x 12'	each 88.88
Size 9' x 15'	each 109.85
Size 9' x 18'	each 130.82

AIRY-TRED UNDERCUSHION

Our best quality natural fibre with latex rubber and plastic for long wear and anti-slip protection. 9' and 12' widths.

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VINYL SURFACED CARPETING

"Rosella" textured design, bonded to regular weight felt cushioning. Suitable for halls or stairs. Colours green, grey, spice, beige.

EATON'S SPOTLIGHT SALE PRICES:

25 1/2" width,	in. ft.	59c
36" width,	in. ft.	87c

MEN'S and BOYS' FURNISHINGS

BOYS' BROADCLOTH PYJAMAS

Tailored in Canada! Smooth, finely woven "sanforized" cottons—fully cut and well-tailored for all-season sleeping comfort. Trousers have balloon seat, drawing waist with elastic insert. Bright choice of assorted patterns. Sizes 4 to 18.

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FLOOR COVERINGS

ACRILAN TWIST BROADLOOM

A new "acrilan" twist carpeting, closely woven and long wearing. Widths 9', 12' and 15' but not all colours available in all widths. Colours: gold, brown, topaz, French vanilla, leaf green, olive green, turquoise, mushroom, rose chestnut.

EATON'S SPOTLIGHT SALE, sq. yd. **9.95**

Example: A 12' x 18' carpet
Cushioning 40.50
Labour and smooth edge 36.00
316.80

FOAM RUBBER FATIGUE MATS

Brown, grey, red, green, blue. Approx. size 18 x 27".

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VISCOSE MATS

Good quality viscose yarns tufted to strong jute back and bonded to thick foam rubber. Permanently non-slip, and tufted pattern will help hide traffic marks. Colours: green, spice, sandstone, grey, charcoal, turquoise, brown, leather tan.

EATON'S SPOTLIGHT SALE PRICES:

27 x 72",	each	5.73
27 x 108",	each	8.53

COTTON MATS

Washable latex back mats with fringed ends. Cut and uncut pile. Colours: blue, turquoise, avocado, cinnamon, grey, green.

EATON'S SPOTLIGHT SALE PRICES:

24 x 36",	each	3.77
27 x 48",	each	5.59

Prince Edward Island Hospital ANNUAL MEETING

Notice is hereby given that in pursuance of the Act of Incorporation a public meeting of all contributors to the Prince Edward Island Hospital will be held in the classroom nurses' residence, Charlottetown, on Thursday, February 21, 1963, at 8 p.m. for the purpose of electing trustees for the government of the institution in accordance with the by-laws and for the transaction of such other business as may be brought before it.

M. MacKENZIE,
Secretary, Board of Trustees.

The general public are cordially invited to attend the Annual Meeting for the year 1962.

FINANCING FOR BUSINESS

On February 12th, 1963
J. F. CLEMENTS
of the
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If you are engaged in a business—or plan to start one—and required financing is not available elsewhere on reasonable terms and conditions, you are invited to discuss your needs with the IDB representative.

An appointment for an interview can be arranged by telephoning

Mr. Clements at the Kirkwood Motel
Telephone 4-8527 or 4-5147

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