

Engineers Told How to Lay Dust

Washington, (Science Service)—Highway engineers were told here how to "lay the dust" kicked up by trucks rumbling along highway construction sites—and keep it down.

Ernest Zube, research engineer for the California Division of Highways, told the Highway Research board meeting that tests showed water to be the most expensive and "for the most part the least effective method" for combating the dust problem.

Tests aimed at showing performance and economic advantages of various dust binders were conducted recently on a highway under construction in California, he said. Beating out water as a means of dust control were a diluted asphaltic mixing emulsion, a lignin product and an asphaltic resin product.

Sprinkling dirt roads with water long has been used to lay the dust around construction, particularly in residential areas. But the water soon evaporates and another sprinkling is needed.

Dust should be controlled not only because it poses a public relations problem but, even more urgent, because it is a health hazard to the workmen, Zube said.



FAMILY OF THE YEAR—Boston's Mayor John F. Collins, in wheelchair, is shown with his family in New York. The Collins family has been named the "1960 New March of Dimes Family of the Year" by Basil O'Connor, president of the National Foundation. With Collins are his wife, Mary; their sons, Thomas, left, 7, and John Jr., 9; and daughters, Patricia, standing, 11, and Margaret, 6, on the mayor's lap. Mayor Collins, who took office in Boston on Jan. 4, suffered a severe polio attack during the 1955 Massachusetts epidemic and has been confined to a wheelchair since. Patricia, John and Thomas also were stricken but less severely. Mrs. Collins and Margaret were not stricken. (UPI Telephoto)

Coffee May Be Big Boost to Person's Health

New Orleans — (Science Service)—Your morning cup of coffee may be contributing significantly to your health, a team of Tulane university researchers reported.

One cup of dark roast coffee contains about three milligrams of niacin, an important B vitamin best known as the pellagra preventive. This is about one-third to one-fourth of an adult's minimal daily requirement. Tests with five adults show that the niacin in coffee is "biologically available for man" and that it is absorbed and excreted in the same way as the pure chemical compound.

Light roast coffee contains less niacin—about one milligram per cup—but could still contribute significant amounts of the vitamin if drunk in sufficient quantities.

Coffee the Answer

The niacin in coffee may help explain why pellagra is not found in some areas where it might be expected to be a serious disease because of vitamin B-deficient diets. Coffee drinking may be the answer, Grace A. Goldsmith, O. Neal Miller, Walter G. Unglaub and Karen Kercheval suggested in the current Proceedings of the Society for Experimental Biology and Medicine.

(Pellagra, now virtually eliminated from the U.S., used to be prevalent, particularly in the South. It is characterized by skin lesions, nausea, vomiting and diarrhea and, finally, by central nervous system changes such as dementia.)

Klamath Man, Wife Okay After Crash

A Klamath Falls couple was reported in good condition following a one-car accident on Highway 66, 11½ miles from Ashland Friday night.

The driver, John Christopher Criswell, 66, of Klamath Falls, is being treated for deep cuts on his face and broken ribs, Ashland General hospital attendants said. His wife, Etta, 61, is suffering from a small bone fracture in her ribs, and minor bumps and bruises.

The car apparently was westbound on Highway 66 when it skidded onto the north shoulder of the highway, hit a deep culvert drainhole, skidded back across the highway and dropped over a steep bank where it rolled over three times, state police said.

National Income Hits Record High

Washington — (UPI) — National income climbed to about \$400 billion last year, a record high, the commerce department has reported.

All major industries, except farming, joined in an advance of nearly 10 per cent from the 1957-58 level. The department said it would give an exact national income figure after its gets complete data on corporate profits in the fourth quarter.

Only a fraction of the increase represented inflation and the balance reflected gains in real output, the department said.

Like other measures of business activity, national income hit a peak rate in the second quarter of 1959, then slipped during the summer because of the steel strike and related layoffs.

National income includes payments to individuals and corporate profits. It is a less comprehensive figure than the gross national product (GNP), which measures total output of goods and services. The GNP hit a record \$480 billion in 1959.

Grange News

Phoenix Grange
The regular meeting will be held Tuesday, Jan. 26, at Phoenix Grange hall at 8 p.m. This will be visitation night, and members of Phoenix Grange are asked to bring sandwiches and the visiting ladies to bring cookies.

Canada authorities claim the Dominion has a greater volume of fresh water than any other country.

Jacksonville Man Held for Burglary

Jacksonville — Jack Leroy Vincent, 26, of Jacksonville, is being held in the county jail on burglary charges, state police reported.

Vincent was arrested by Frank Carter, Jacksonville police chief, and state police Friday night on charges of burglarizing the Jacksonville Dental laboratory and connecting residence Thursday.

Approximately \$140 was taken and \$103 recovered when Vincent was arrested at his home. Part of the money was taken from an office desk and the rest from a coffee can inside a refrigerator in the house behind the laboratory, Carter said.

Carter said he also is investigating the recent theft of a Merryville engine from E. J. Sloan, Jacksonville. Sloan discovered the engine theft Friday when the wind blew the cover off the garden implement, Carter said.

1-Man Helicopter Receives Patent

Washington (Science Service)—A Swiss inventor last week received a patent for a one-man helicopter that looks like a huge winged doughnut fastened around the pilot's waist.

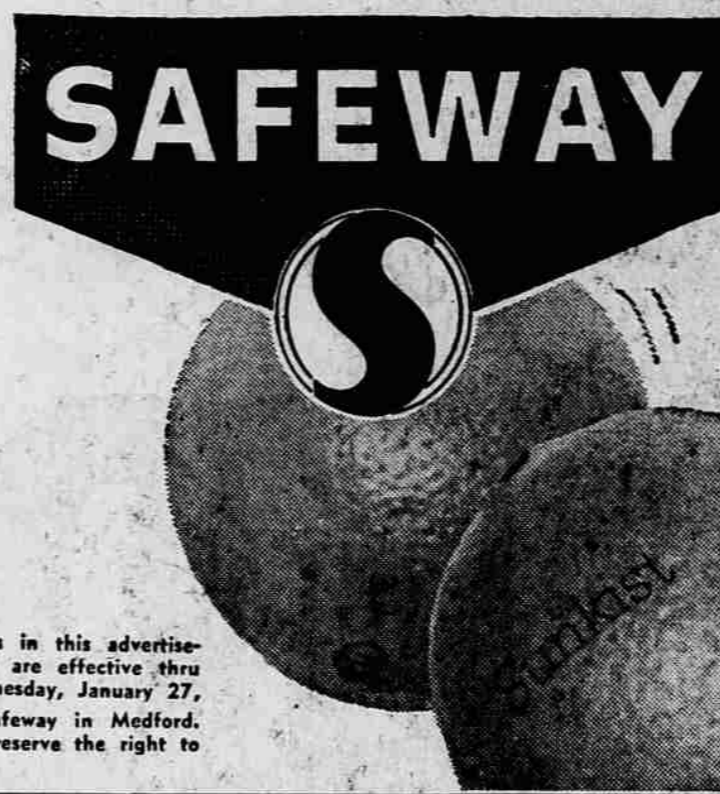
The 'copter has no cabin or seating arrangement. The pilot merely stands on the ground within the harness of the chassis until the vehicle is airborne. His weight is half above the level of the blades and half below.

Mounted about the doughnut-shaped chassis is a circular fuel tank that rotates. Two driving blades are mounted radially on opposite sides of the tank and a rudder protrudes from the rear of the chassis. Two pulse jets at the tips of the blades, which assure the blades' rotation, are fed fuel through a flexible tube.

The 'copter, invented by Arnold Junker of Vesenzana, Geneva, Switzerland, is controlled by two handles, one of which operates the rudder and the other of which changes the angle of the driving blades. Junker's patent was one of 990 patents granted by the U.S. Patent Office here last week.

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