

Can Man Fly at Speed Almost to That of Light?

By JAMES LYLE

Moffett Field, Calif. (AP)—Man will never fly faster than light, which is 670,000,000 miles per hour, but that's about the only barrier aeronautical engineers will admit is insurmountable. According to Dr. Albert Einstein, at the speed of light size is reduced to zero and mass is increased to infinity.

Scientists at the Ames laboratory of the National Advisory committee for aeronautics won't argue with Einstein, but they also refuse to admit anything short of that speed is impossible.

There is a formidable barrier, however, they say, much closer to the speed man has flown since the Bell X-1 broke through the speed of sound at Murdock Dry Lake.

The next obstacle, according to the Ames scientists, is heat. It's apt to be a tough nut to crack too, because the heat is generated rapidly as speed is increased above that of sound. All of the vitals of the plane must be refrigerated and even then the basic metal structure is weakened by the heat.

The Ames scientists, who shudder at the idea of being quoted directly, refuse to divulge the speed at which the heat problem stops them. That is a closely guarded secret.

Suffice to say it is apparently somewhere beyond 1,000 miles per hour.

That figure can be deduced from a recent prediction by John F. Victory, executive secretary of the NACA, who said: "... the day when military aircraft can make sustained flights of 1,000 miles per hour or more is not far distant."

Ames engineers say the increase in heat due to the compression of air ahead of the plane is about 100 degrees Fahrenheit at the speed of sound. (760 miles per hour at sea level.) The temperature rise occurs at the nose of the plane and the heat elsewhere, because of friction of the boundary layer air on the skin of the plane, is only a few degrees less.

Beyond the speed of sound the temperature rises rapidly.

Just how great that temperature can become was made clear by one of the laboratory scientists who explained:

"A shooting star is just a piece of iron being burned up by its speed through the earth's atmosphere."

One of the solutions has been to fly at higher altitudes where the air is colder, but the engineers say there is a limit to this practice because in the rare upper air the sun's rays have a greater heating effect.

Refrigeration has been another partial solution, but it does not solve the problem because it is impossible to refrigerate the entire airplane and there is a limit to the amount the temperature can be dropped.

Only one thing is certain, the absolute speed limit is somewhere between 1,000 miles per hour and 670,000,000 miles per hour. It's probably much nearer the lower figure.

Barkley Opens Coffee Meeting

Boca Raton, Fla., Dec. 8 (AP)—Vice President Alben W. Barkley opens the National Coffee association's annual convention here today.

He will address approximately 750 delegates representing 80 per cent of the nation's coffee distributors at 10 a.m. (EST) on general business and governmental relations.

The veep arrived late last night from Washington aboard an Eastern Air Lines plane. Mrs. Barkley remained in the capital and the vice president is expected to return here tonight.

Coffee prices will remain high for some time, said W. F. Williamson, secretary-manager of the association in a preview of discussions to continue through Saturday.

"The subject of coffee is as hot as a firecracker right now," he said. "The price increase resulted from a combination of circumstances including a relatively short supply and consumer hoarding."

"People hearing of the shortage began to buy a little extra. A 'little bit extra' held in reserve becomes a large amount when it's realized that 95 per cent of the homes use coffee."

The hoarders took a month's supply off retailers' shelves and hid it away on their own.

"As a result, all coffee distributors had to go into the market at once, and the price spiraled upward. The explanation is nearly as simple as that."

Pacific to Atlantic Shift of Navy Alarms

Washington, Dec. 8 (AP)—Admiral Forrest P. Sherman, chief of naval operations, said today he is concerned over the weakening of the Pacific fleet under the shift of naval strength from the Pacific to the Atlantic.

He said that he has been "going over the ways and means of strengthening" the Pacific fleet since he took over office two months ago.

Sherman made the statement in answer to questions at a National Press club luncheon at which he was the guest speaker.

The navy began moving the heavier portion of its fleet to the Atlantic more than a year ago.

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- Bartlett Pears Triumph, in syrup, tall can 10c
- Pineapple Hillsdale, b'ken slices, Hawaii lge. 2 1/2 can 29c
- Maraschino Cherries Large 8 oz. jar 23c
- Hixon Puddings Vanilla Tapioca, Reg. pkgs. 7 pkgs. 25c



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- ALMONDS S & W, soft shell lb. 33c
- MIXED NUTS Fancy quality, No peanuts lb. 33c
- SALTED PEANUTS Planters or Circus, 8 oz. can 29c
- SWIFTNING SHORTENING 3 lb. can 69c
- SWIFT PREM Spiced Luncheon Meat 12 oz can 35c
- FRANKFURTERS SWIFT PREMIUM 12 oz. can 49c
- SMOKED CHOPPED HAM Swift Premium, 12 oz. can 49c
- TURKEY ALA KING Swift Premium 15 1/2 oz. can tall can. 49c
- SPAGHETTI & MEAT Swift Premium, 16 oz. can 23c

Rath Canned Meats Demonstration Friday & Saturday

- BEEF WITH GRAVY Rath 1 lb. can 65c
- PORK WITH GRAVY Rath 1 lb. can 59c

BREAKFAST SAUSAGE Rath 8 oz. can 37c

DRIED BEEF Rath 2 oz. glass 29c

WALLA WALLA, FINEST QUALITY FANCY SWEET PEAS

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WALLA WALLA FANCY ALL GREEN ASPARAGUS SPEARS tall Can 31c 12 cans 3.59

GREEN LIMA BEANS No. 303 Can 27c Walla Walla fancy 10 oz. can 21c

EXTRA FRESH FRUITS & VEGETABLES HIGHEST QUALITY

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- ONIONS Sweet Spanish 3 lbs. 10c
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SPIC and SPAN Lge. pkg. 23c

1 lb. Crisco 29c 3 lb. 75c

SUNBRITE CEANSER 3 cans 21c

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