

'BENDS' OF PILOTS SERIOUS PROBLEM IN WAR AVIATION

Aeroembolism Takes Various Forms—Caused by Gas Bubbles at High Levels

By Capel McNash (U. P. Staff Correspondent)

Cleveland (U.P.)—Aeroembolism—similar to the "bends" suffered by divers as they return to the surface—is one of the most serious problems of modern military aviation, believes D. B. Dill of the experimental laboratory at Wright field, Dayton, O.

The ailment is caused by reduced air pressure during high-altitude flying at 40,000 feet or more and sometime occurs at 30,000 feet.

"Aeroembolism takes various forms but in all cases may be attributed to the formation of gas bubbles in tissues or body fluids," Dill told the scientific session of the American Heart association recently. "The formation of these bubbles has a simple physical explanation: A sudden reduction in pressure produces a supersaturated solution of nitrogen in body water."

Nitrogen Bubbles Grow He explained that once a nitrogen bubble forms it grows by "accretion" as both carbon dioxide and oxygen diffuse into it so that finally it may contain no more than 50 per cent nitrogen.

"The bends" are pains in the joints, particularly the knee and ankle. These usually disappear on descent, but if they have been experienced for an hour or longer may persist in diminished intensity for some hours at ground level, Dill said.

Another system of aeroembolism is itching of the skin—presumably caused by gas bubbles forming in the skin and pressing on nerve terminals.

Pain Sometimes Dill said that this itching in some cases gradually merges into pain. The distress, he said, becomes evident "through perspiration, paleness and the classical symptoms of shock."

"This form of the ailment in our experience is most common in individuals with too much subcutaneous fat," Dill said.

Pilots sometimes experience pulmonary pain, which starts as a throat irritation.

Precision Welder Schenectady, N. Y. (U.P.)—Mrs. Beatrice Larned always did like fine work. So for the last 14 years she has been spot welding wires which are one-quarter the thickness of human hair. The filaments are used in thermocouples. For recreation, Mrs. Larned does crocheting and needlepoint.

Judy Canova and Husband



Judy Canova, film singer, with James Ripley, army corporal, on the beach at Honolulu. Miss Canova admitted on her arrival in San Francisco by clipper from Honolulu that she married Ripley secretly on the islands. Ripley, reported to be nephew of cartoonist Bob Ripley, was in the guard house at Fort Ruger, Honolulu. Army officials did not say why.

ARMY EXPANDS ARIZONA BASES FOR AIR CORPS

By William McMeanamin (U. P. Staff Correspondent)

Phoenix, Ariz. (U.P.)—Endowed with year-round perfect flying weather, the Phoenix area has begun a rapid development into a leading center of the nation's expanded pilot training program.

Army air corps experts predict the continued development of Phoenix bases soon will make them rivals to Kelly and Randolph fields in Texas for the title of "West Point of the air."

The city has a major cadet training base, Thunderbird field, a new \$2,000,000 base for training students in the use of single-engine bombers, Luke field, and a large municipal airport.

Construction of a twin-engine plane base and other airports in the vicinity are under construction.

Luke field, recently completed, soon will hold a contingent of 3,000 officers and men and at least 200 advanced training planes, under command of Col. Ennis C. Whitehead.

Thunderbird field, new \$200,000 privately-owned center organized to train cadets in the rudiments of flying preliminary to entering advanced army courses, recently was dedicated at graduation exercises for a class of 42 cadets.

Major Kenneth McNaughton, Moffett field, Cal., predicted at the graduation exercises that it soon would be one of the largest cadet training centers in the country. Enrollment was expected to swell rapidly to a peak of 200 cadets in each class.

Major D. M. Schlatter, Moffett field, disclosed that the army air corps was considering construction of a twin-engine plane base in the Higley district, southwest of Phoenix.

AIR UNIT PACKS FOR PENDLETON

McChord Field, Wash., June 25.—(AP)—The 17th bombardment group started packing baggage and equipment today for a move to the Pendleton air base, Oregon.

The movement of the men, planes and other impediments will be completed by Sunday, according to Col. William H. Crom, commanding officer of McChord.

Lieut. Col. Walter R. Peck is the commander of the 17th. Under him are approximately 750 men. The bombardment group includes the 34th and 95th bombardment squadrons and a headquarters squadron.

Returns \$250 Tulsa, Okla. (U.P.)—A 70-year-old woman who had been on the Oklahoma pension rolls for some time walked into the office of the department of public welfare here and paid back all the money the state had given her—an estimated \$250. She told the pension officials that "I don't want a pension any more."

ACQUIT WARNER IN BEEF TRUST

The circuit court jury in the trial of John Warner of the Elk Creek district charged with larceny of livestock, returned a verdict of not guilty this afternoon. The jury deliberated for about 20 minutes, retiring at 1:20 and returning at 1:40 o'clock. George W. Lance of Gold Hill was foreman.

A motion for a directed verdict by the defense this morning was denied by the court.

Warner was indicted last January by the grand jury, and Robert Morgan was named as a co-defendant. Morgan's whereabouts are unknown.

Much of the testimony against Warner was circumstantial. The state called 13 witnesses.

The defendant was represented by Attorney Allison Moulton, and the state by District Attorney George W. Neilson.

Losses Trouser Seat Hastings, Neb. (U.P.)—Filling station operator, A. E. Wright, was relieved of his slot machine but not until he had the seat from the thief's trousers. He appeared just as a youth was carrying the slot machine from the station office and made a grab for him but all he got was a fistful of cloth.

Aids Conversation New York (U.P.)—Poetry was found in an experiment at Hunter college to be the most effective method of developing good conversational speech, with conversation itself lagging far behind. Other methods considered were dramatics and prose, which was the poorest medium.

Population 499,261 Phoenix, Ariz. (U.P.)—Arizona ranked 44th in density of population among the 48 states in 1940. A census bureau report showed the state's population was 4.4 per square mile. Total population of Arizona was listed as 499,261.

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TOURIST CATERERS MEETING TONIGHT

All persons engaged in catering to the public were today invited to attend an educational meeting on tourist trade in council chambers at city hall at 8 p. m. tomorrow.

Karl L. Janouch, supervisor of Rogue River national forest will be guest speaker. Mr. Janouch will tell of the camping, fishing, hunting, hiking, horseback riding, mountain climbing, picnicking and other recreational activities available in the forests. He will relate how the forest service has developed these recreational resources and where they may be found.

This is the first of a series of six such educational meetings to be sponsored by the junior committee of the Jackson County Chamber of Commerce. The other five will follow in successive weeks, each at the same time and place on Thursday nights.

Tonight, war schedule—5:15 MBS; 6:00 MBS; 8:00 NBC CBS; 4:55 CBS; 5:30 NBC-Blue; 6:45 CBS; 8:30 MBS.

CBS—8:15 Sen. Robert A. Taft on "No Intervention." NBC-Blue—6:30 Eucharistic Congress, Women's Holy Hour.

Thursday, the War—4 a. m., NBC CBS; 4:55 NBC-Blue; 5:30 NBC-Red CBS; 6 NBC-Blue MBS; 7 MBS; 8 MBS; 9:45 NBC; 10 MBS; 11:55 CBS; 12 p. m., NBC-Blue; 2:25 NBC-Red; 2:45 CBS NBC-Blue.

Eucharistic Congress—NBC-Blue 6:30 a. m. Pontifical Mass; MBS 11:45 and CBS 12:45 Procession of Blessed Sacrament... NBC-Red—2:30, Speaking of Liberty, Mrs. J. Borden Harri-

man. NBC-Blue—8:30 a. m., Farm and Home hour, Lady Halifax. MBS—1:30 Delaware Park race; 2:05 Camp Grant in Review.

Legg, board No. 2. Ayers was a transfer from Portland, Legg from Lockhart, Texas.

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LIVESTOCK

Portland, June 25.—(AP-URDA)—Hogs: 600; market active, around 15c higher; good-choice 175 to 215-lb. drive-ins \$11.85@12.00; 230 to 280-lb. weights mostly \$11.35@11.50; few to \$11.65; light-weights \$11.00@11.25; packing sows mostly \$9.50@9.75; lightweights to \$10.00; medium grades to \$9.00; choice light feeder pigs quotable to \$13.00.

Cattle: 285; calves 35; market uneven; beef cattle active, steady to strong; dairy cows slow; about steady; bulls weaker; grass fat steers \$8.75@9.75; few fed steers \$10.00; stockers \$8.25@9.00; grass fat heifers \$9.75@9.50; cutter to common dairy heifers \$6.50@7.50; good young beef cows up to \$8.25; heavy beef cows to \$7.25; canner to cutter cows \$4.70@6.00; shelly kinds down to \$4.00; medium-good bulls \$8.25@8.75; few beef bulls \$9.15; cutter to common bulls \$11.00@12.00; culls downward to \$6.50.

Sheep: 150; market slow, fat lambs weak to slightly lower; many sales 25c under Monday; good-choice lambs \$8.50@8.75; feeder lambs \$7.75@8.15; old yearlings \$6.50; good slaughter ewes quotable up to \$9.50 or above.

South San Francisco, June 25.—(AP-Fed-State Market News) Hogs: 800; steady to 10c higher; most 145 to 235-lb. California \$11.40@11.60; odd packing sows \$8.50@9.00.

Cattle: 25; steers largely nominal, absent; better grades better and young range cows scarce; few dairy cows \$5.50, odd canners \$3.50, few \$4.00; few grass 1,000-lb. bulls \$6.25, light kinds \$7.00@7.50. Calves: Salable 10; nominal; good to choice vealers quoted \$11.00; slaughter calves to \$9.00.

Sheep: 1,200; steady; dock good 74-lb. lambs \$10.25; most medium lambs \$9.50@9.00, choice scarce, quoted around \$10.50; medium to choice shorn ewes quoted \$2.50@3.25.

Chicago, June 25.—(AP-URDA)—Hogs: 15,000; active; top \$10.75; free-ry; good 180 to 270-lb. \$10.50@10.75; most 270 to 330-lb. \$10.40@10.65; good 400 to 500-lb. packing sows \$9.25@9.85; lighter weights \$9.85@10.10.

Cattle: 10,000; calves, 800; early top \$11.75 on choice 1,114-lb. long yearlings; neat highest \$11.65; most early sales \$10.50@11.25 with little sold over 1,200 lbs.; best heifers \$11.75; weight sausage bull offerings to \$9.00; vealers strong to 25c higher at \$12.00 down.

Sheep: 8,000; better grade spring lambs 25c lower; other classes steady; few small bunches closely sorted; native springers \$12.50; other good to choice lots \$12.00@12.25; few clipped lambs \$8.50@9.50; best light weight native ewes \$4.75; bulk small lots \$4.00@4.50; with common and cull downward from \$2.75.

San Francisco Butter, June 25.—(AP-Butter) 92 score 38 1/2; 91 score 36 1/2; 90 score 35; 89 score 34 1/2.

Portland Produce

Portland, June 25.—(AP)—Produce steady and unchanged.

Portland Wheat

Portland, June 25.—(AP)—Futures: Wheat: Open High Low Close

Sept. 90 1/2 90 1/2 90 1/2 90 1/2  
Cash grain:  
Oats—No. 2, 36-lb. white \$26.50.  
Flax—No. 1, \$1.80 1/2.  
Cash wheat (bid): Soft white 90c; soft white excluding rex 89 1/2c; white club 93 1/2c; western red 93 1/2c; hard red winter; ordinary 93c, 11 per cent 95 1/2c, 12 per cent 97 1/2c, 13 per cent 99c, 14 per cent \$1.01; hard white-bast: 12 per cent \$1.11 1/2, 13 per cent \$1.13 1/2, 14 per cent \$1.15 1/2.  
Today's car receipts: Wheat 54; flour 10; corn 4; oats 3; millfeed 4.

Chicago Wheat

Chicago, June 25.—(AP)—Wheat: Open High Low Close

July 1.02 1/2 1.03 1.02 1.02 1/2  
Sept. 1.04 1/2 1.04 1.03 1.04 1/2  
Dec. 1.06 1/2 1.06 1.05 1.06 1/2

Wall St. Report

New York, June 25.—(AP)—A rising movement among air-

crafts, in which a few other defense manufacturing shares joined, imparted a steady tone to the stock market today. Bonds were steady.

The turnover totaled only about 400,000 shares. Operators shied away from taking very pronounced positions in any trading classification.

Today's closing prices for 34 selected stocks follow:

Al. Chem. & Dye 152 1/4  
Am. Can 84  
A. T. & T. 156 1/4  
Anacosta 27 1/2  
Atch. T. & S. F. 29 1/4  
Bendix Aviat. 37  
Bethlehem Steel 73 1/2  
Caterpillar Tract. 48  
Chrysler 57 1/2  
Curtiss-Wright 8 1/4  
Douglas Aircraft 73 1/2  
DuPont 154  
Gen. Electric 32 1/2  
Gen. Foods 37  
Gen. Motors 38 1/2  
Int. Harvester 51  
John-Manville 65 1/2  
Kennecott 35  
Monty Ward 35  
No. Amn. Avn. 14 1/4  
North Amer. 12 1/4  
Penney (J. C.) 70 1/2  
Penn. R. R. 23 1/2  
Phillips Pet. 44 1/2  
Radio 4

Southern Pacific 11 1/2  
Std. Oil Cal. 25 1/2  
Std. Oil N. J. 40 1/2  
Transamerica 4 1/2  
Union Carbide 71 1/2  
United Aircraft 40  
United Airlines 10 1/2  
U. S. Steel 56 1/2

Sacramento, June 25.—(AP)—Butterfat: First grade 41 1/2c; second grade 39 1/2c.

A manganese ore concentration plant located in Oriente province, Cuba, producing 360 tons of 50 per cent manganese daily, is believed the largest enterprise of its kind in the world.

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