

PATROL WING TWO,
U. S. NAVAL AIR STATION,
Pearl Harbor, T. H., December 30, 1941.

Confidential

Memorandum to Lieutenant Commander COB, U. S. N.

From: Major W. J. Holmupfel, U. S. A.

The following information on the B-24 airplane is gathered from pilots on the ferry command in the United States and from mechanics who were on the ferry command to England who used this type of airplane:

B-24 is equipped with Pratt and Whitney Twin row engines Model R-1830 with two stage engine driven blowers and developing 1350 horsepower during take-off.

The gas capacity of these airplanes is 2,100 gallons divided into two 1,550 gallon wing tanks. These tanks are not bullet proof. The Consolidated Corporation however is planning on putting in bullet proof tanks which will cut down the gas capacity to 2,400 gallons.

On these trips the thought of fuel economy is never considered. The airplanes were cruised between 29 and 31 inches of mercury, 2,000 RPM at altitudes of 7-10,000 feet. Carburetor mixture was set at lean. Fuel consumption at these altitudes at these settings, which is considered maximum cruising, was 150 gallons gasoline per hour and the indicated air speed was between 180-200 statute miles per hour.

This airplane has two bomb bays each with 10 bomb stations. Capacity of the bomb bays is 8,000 pounds of bombs. The armament is composed of 9 .50 cal. machine guns and 1 .30.

The weight empty of these airplanes is 50,000 pounds. The authorized gross weight of this airplane (maximum limit as set by manufacturer) is 57,000 pounds. However, conversations with a mechanic who made a trip to England brought out the fact that one such airplane was once loaded to 72,000 pounds and it is reported that the English have loaded one of these airplanes to 83,000 pounds. No difficulties were found in take-off or flying quality of this airplane.

/s/ W. J. HOLMUPFEL.

EXHIBIT No. 60

(Exhibit No. 60 is, in the main, a work sheet showing dispositions of vessels in Pearl Harbor on the morning of 7 December 1941, which will be found reproduced as Item No. 14. EXHIBITS-ILLUSTRATIONS, Navy Court of Inquiry. These illustrations are bound together following the printed exhibits of the Navy Court of Inquiry.)

SUMMARY OF SHIPS (BY TYPES) AS SHOWN ON EXHIBIT 60.

BB-----	8	(Battleships)
CA-----	2	(Cruisers, heavy)
CL-----	6	(Cruisers, light)
DD-----	29	(Destroyers)
DM-----	8	(Destroyer Minelayers, conv.)
DMS-----	4	(Destroyer Minesweepers, conv.)
SS-----	5	(Submarines)
YFD-----	1	(Floating Drydock)
AH-----	1	(Hospital Ship)
A-----	21	(Auxiliaries) — (2 AO, 2 AVD, 1 AK, 1 AS, 1 PG, 1 Aux. Flag-ship, 3 AR, 2 AG, 2 AD, 2 AVP, 2 AV, 1 CM, 1 AM)