Benjamin O. Davis Jr. Collection - Flight Checks - Davis, Benjamin O. 1206-A. (1)

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^[[GEN DAVIS]]

[[underlined]] WEIGHT AND BALANCE QUESTIONNAIRE [[/underlined]]

- I Given the following facts complete a form DD 365F for a C-47 flight in aircraft 43-48503 to Berlin (2 hrs 30 min duration). Prepare the Form F as you would if you were going to attach it to your AF 175.
- 1. Basic aircraft 17076 lb.
- 2. Basic index 32.2
- 3. 58 gallons of oil (wt 7.5 lb/gal.)
- 4. Crew of four (2 in A compartment, 2 in C compartment).
- 5. 804 gallons of fuel (wt. 6 lb/gal.)
- Ballast in H compartment 125 lbs.
- 7. Cargo 3500 lbs of 100 lb cement bags.
- 8. Passengers 2 at 200 lbs per person.

Arrange the load so as to have the center of gravity located between 19% and 21% of the MAC.

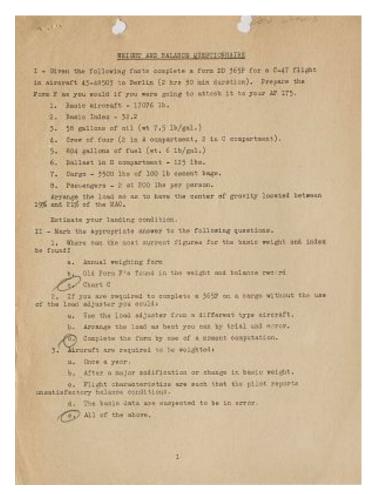
Estimate your landing condition.

- II Mark the appropriate answer to the following questions.
- 1. Where can the most current figures for the basic weight and index be found?
- a. Annual weighing form
 b. Old Form F's found in the weight and balance record [[circled]] c. [[/circled]] Chart C
- 2. If you are required to complete a 365F on a cargo without the use of the load adjuster you could:
- a. Use the load adjuster from a different type aircraft.
- b. Arrange the load as best you can by trial an error.

[[circled]] c. [[/circled]] Complete the form by use of a moment computation.

- 3. Aircraft are required to be weighted:
- a. Once a year.
- b. After a major modification or change in basic weight.
- c. Flight characteristics are such that the pilot reports unsatisfactory balance conditions.
- d. The basic data are suspected to be in error. [[circled]] e. [[/circled]] All of the above.

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