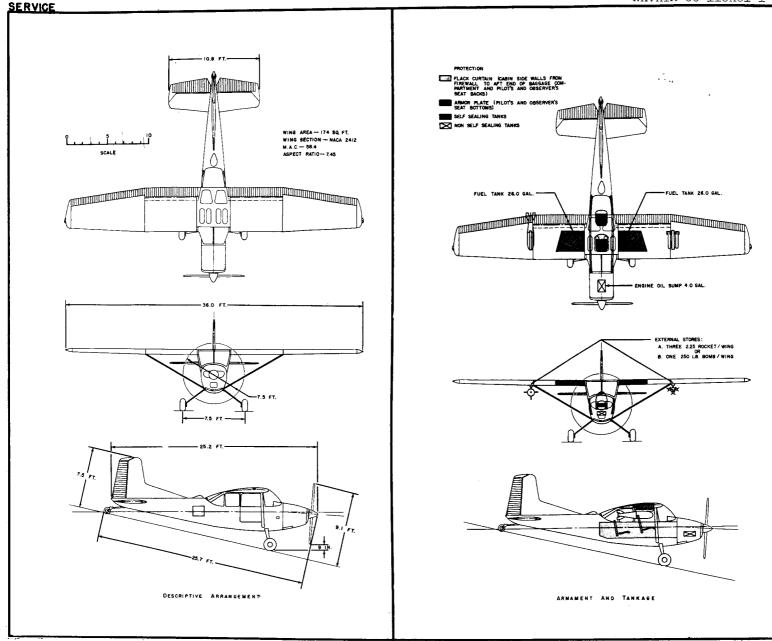


# STANDARD AIRCRAFT CHARACTERISTICS MODEL 0-IC

CESSNA

Published by direction of the Commander of the Naval Air Systems Command



#### POWER PLANT

## RATINGS

 BHP
 @ RPM
 @ ALT.

 T.O.
 265
 2,600
 S.S.L.

 NORM.
 250
 2,600
 S.S.L.

SPEC. NO. 1378e

#### **ORDNANCE**

Provisions for the following on a MK-8 shackle under each wing:

NO. I TEM

3 2.25" sub-cal. AAR 1 250 lb. Aero-15A spray .tank

Max. Capacity - 500 lb.

# MISSION AND DESCRIPTION

The basic mission of the OE-2 airplane is short range limited.

The airplane has an all-metal, high wing, adjustable stabilizer, constant-speed propeller, controllable cowl flaps, armor plate on bottom of both seats and self-sealing fuel cells. Normal crew capacity consists of a pilot and observer.

The OE-2 differs from the OE-1 airplane in that it incorporates a O-470-2 engine in lieu of an O-470-11, constant speed prop, electric flap system, self-sealing fuel cells, new tail surfaces and free blown windshield.

#### DEVELOPMENT

First Flight......August 1954 Service Use......September 1955

#### WEIGHTS

 LADINGS
 LBS.
 L.F.

 EMPTY.
 1,830.
 ...

 BASIC.
 1,861.
 ...

 DESIGN.
 2,650.
 ...

 MAX.
 T.O.
 2,650.
 ...

 MAX.
 IAND
 2,650.
 ...

#### FUEL AND OIL

NO. TANKS TOT. GAIS. LOCATION

2 48.5 Wing

Fuel Grade......100/130
Fuel Spec....MIL-F-5572

	OIL	4
CAPACITY	(gals)	30
RADE		1100
SPEC		MIL-L-6062

### **DIMENSIONS**

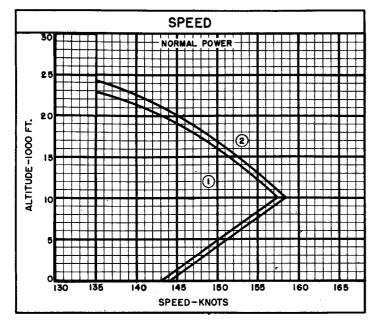
WING
AREA. 174 sq.ft.
SPAN. 36'-0"
MAC. 58.4"
LENGTH. 25'-8"
HEIGHT. 9'-1"
TREAD. 7'-6"
PROP, GRD, CLEAR 9"

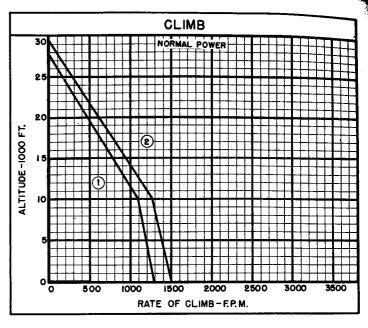
### **ELECTRONICS**

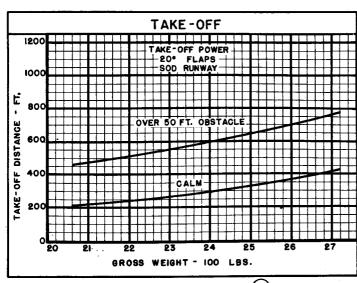
RADIO COMPASS......ADF-R1hB UHF.....ARC Type 12 COMMUNICATIONS.....PRC-8,9,10

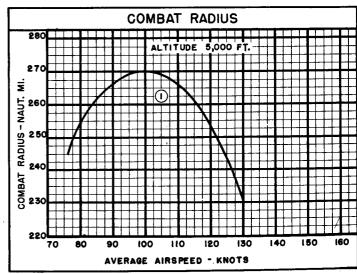
PERFORMANCE SUMMARY										
TAKE-OFF LOADING CONDITION	(1) LIAISON	rerry		· in						
TAKE-OFF WEIGHT 1b		2,400								
Fuel (6.0 lbs/gal) lb		312								
Fayload 1b										
Wing loading 1b./sq.ft	15.2	13.8								
Stall speeu - power-off (C) kn		48.6								
Take-off run at S.L calm (A) ft		300								
Take-off run at S.L. kn. wind ft	<b>.</b>									
Take-off to clear 50 ft calm (A) ft		600			<u> </u>					
Max. speed/altitude (B) kn./ft	721321 3	158.4/10,000								
Rate of climb at S.L. (B) fpm		` 1,500								
Time: S.L. to 10,700 ft. min	1	7.3			_					
Time: S.L. to 20,000 ft. min		18.7								
Service ceiling (100 fpm) ft		27,800								
Combat range n.mi	580	610								
Average cruising speed kn		107								
Cruising altitude(s) ft	7,000	5,000								
Combat radius n.mi	270									
Average cruising speed kn Mission time hrs.	108									
MISSION (Line III.)	,,,,				-					
COMBAT LOADING CONDITION		<u>.</u>								
COMBAT WEIGHT 1b	•									
Engine power										
Fuel 1b										
Combat speed/combat altitude kn./ft		<b>.</b>								
Rate of climb/combat altitude fpm/ft										
Combat ceiling (500 fpm) ft		<u> </u>	<u> </u>		·					
Rate of climb at S.L. fpm		ļ								
Max. speed at S.L. kn		ļ								
Max. speed/altitude kn./ft	<u> </u>									
LANDING WEIGHT 1b	2,388									
Fuel 1b										
Stall speed - power-off (C) km	48.4									
Stall speed - with approach power (C) kn										

(A)	Tal	ke-o:	ffp	ower	•	NOTES											
_ (B)	No:	rmal	pow	er.	-	-	-	-	-	-	-	-	-	-	-	-	-
(c)	40	- deg	- rees	- fla	ps.	-	-	-	-,	-	_	-	-	-	_	-	_
ER	- FORM	– ance	- BAS	- IS:	– Con	- itrac	- tors	– and	- par	- tial	NATO	- n	_ ight	- tes	s.	-	-
	E Al							ontr	_ acto	rs f	_ light	t te	st f	uel uel	-	-	-









LOADING CONDITION COLUMN NUMBER

# **NOTES**

MISSION TIME - TIME TO CLIMB / CRUISE-OUT / CLIMB / CRUISE-BACK

#### BASIC MISSION - LIAISON

WARM-UP, TAXI, TAKE-OFF: Fuel allowance for 5 minutes with normal rated power at sea level.

CLIMB: To 5,000 feet with normal rated power.

CRUISE-OUT: At 5,000 feet at speed for best cruise.

LAND: At remote sea level base - no fuel used - no distance gained.

TAKE-OFF: Fuel allowance for 5 minutes with normal rated power at sea level.

CLIMB: To 5,000 feet with normal rated power.

CRUISE-BACK: At 5,000 feet at speed for best cruise.

RESERVE: 5 percent of initial fuel plus 20 minutes fuel allowance at long range airspeeds at sea level.

